STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

November 3, 1987

Marathon Oil Company
P. O. Box 2690
Cody, WY 82414

Dear Applicant:

RE: TEMPORARY APPLICATION
NUMBER 09-1540 (T62937)

Enclosed is a copy of approved Temporary Application Number 09-1540 (T62937). This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire November 3, 1988, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it, is with the Area Engineer, Mark Page. The telephone number is (801)637-1303.

Sincerely,

Robert L. Morgan

Robert L. Morgan, P.E.
State Engineer

RLM:rc

Encl.: Copy of Approved Temporary Application

Form 97 2M 10-70

OCT 09 1987

WATER RIGHTS

SALT LAKE

TEMPORARY

Application No. T-62937

09-1540

10/26/87 - REC# 23187

APPLICATION TO APPROPRIATE WATER

STATE OF UTAH

OCT 2 1987

NOTE: The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is Marathon Oil Company
3. The Post Office address of the applicant is P. O. Box 2690, Cody, Wyoming 82414
4. The quantity of water to be appropriated ______ second-feet and/or 3.5 acre-feet
5. The water is to be used for Oil Well Drilling (Major Purpose) from November 1, 1987 (Month) (Day) to November 1, 1988 (Month) (Day)

   other use period ______ (Minor Purpose) from ______ (Month) (Day) to ______ (Month) (Day)

   and stored each year (if stored) from ______ (Month) (Day) to ______ (Month) (Day)

6. The drainage area to which the direct source of supply belongs is ______ (Leave Blank)
7. The direct source of supply is* An artesian well, Sec. 35, T38S, R25E (Name of stream or other source)

   which is tributary to ______, tributary to ______

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point*

   SE¼ NW¼ Sec. 35, T38S, R25E

   North 3537 East 2102 from SW Corner Sec. 35, T38S, R25E, SLB&M

   10-28-87 DS

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of pumping water from the artesian well.
10. If water is to be stored, give capacity of reservoir in acre-feet ______ height of dam ______ area inundated in acres ______ legal subdivision of area inundated ______
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows: ______ Total ______ Acres
12. Is the land owned by the applicant? Yes ______ No X If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes ______ No X

    If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. ______
15. If application is for mining, the water will be used in ______ Mining District at the ______ mine, where the following ores are mined ______
16. If application is for stockwatering purposes, number and kind of stock watered ______
17. If application is for domestic purposes, number of persons ______, or families ______
18. If application is for municipal purposes, name of municipality ______
19. If application is for other uses, include general description of proposed uses Oil Well Drilling
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE¼ NE¼ Sec. 26, T38S, R25E proposed wellsite for Tin Cup Mesa #5-26 (See attached map for source and haul route).
21. The use of water as set forth in this application will consume 3.5 second-feet and/or acre-feet of water and 0 second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: ______

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Paragraph #7 - Underground Water (artesian well)

Paragraph #8 - San Juan County, SE NW of Sec 35, T38S, R25E, S.1975 ft. and W.565 ft. from N¼ Corner Sec. 35, T38W, R25E SLM&B.

Paragraph #12 - Surface and mineral rights owned by U. S. Government

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

R P Nolan Regulatory Coordinator

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

Notary Public

(SEAL)

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1540 APPLICATION NO. T62937

1. October 23, 1987 Application received.

2. October 29, 1987 Application designated for APPROVAL by MP and KLJ.

3. Comments:

Conditions:
This application is hereby APPROVED, dated November 3, 1987, subject to prior rights and this application will expire on November 3, 1988.

Robert L. Morgan, P.E.
State Engineer

RECEIVED
OCT 09 1987
WATER RIGHTS
SALT LAKE

Form 97 2M 10-70

TEMPORARY

Application No. T-62,957
09-1540
10/26/87 - Rec # 23187

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

OCT 26 1987

DIVISION OF WATER RIGHTS

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4. The quantity of water to be appropriated _____ second-feet and/or 3.5 acre-feet

5. The water is to be used for Oil Well Drilling (Major Purpose) from November 1, 1987 (Month) (Day) to November 1, 1988 (Month) (Day)

other use period _____ (Minor Purpose) from _____ (Month) (Day) to _____ (Month) (Day)

and stored each year (if stored) from _____ (Month) (Day) to _____ (Month) (Day)

6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)

7. The direct source of supply is* An artesian well, Sec. 35, T38S, R25E (Name of stream or other source)

which is tributary to _____, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* SE¼ NW¼ Sec. 35, T38S, R25E North 3537 East 2102 from SW Corner Sec. 35, T38S, R25E, SLBM 10-28-87 JB

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

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10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____ area inundated in acres _____ legal subdivision of area inundated _____

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

_____ Total _____ Acres

12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes _____ No X
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. _____

15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____

16. If application is for stockwatering purposes, number and kind of stock watered _____

17. If application is for domestic purposes, number of persons _____, or families _____

18. If application is for municipal purposes, name of municipality _____

19. If application is for other uses, include general description of proposed uses Oil Well Drilling

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE¼ NE¼ Sec. 26, T38S, R25E proposed wellsite for Tin Cup Mesa #5-26. (See attached map for source and haul route). 43-037-31368-DJ.

21. The use of water as set forth in this application will consume 3.5 second-feet and/or acre-feet of water and 0 second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: _____

NOV 05 1987

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Paragraph #7 - Underground Water (artesian well)

Paragraph #8 - San Juan County, SE NW of Sec 35, T38S, R25E, S.1975 ft. and W.565 ft. from N¼ Corner Sec. 35, T38W, R25E SLM&B.

Paragraph #12 - Surface and mineral rights owned by U. S. Government

(Use page 4 if additional explanatory is needed.)

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R P Mclan Regulatory Coordinator

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

Notary Public

(SEAL)

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1540 APPLICATION NO. T62937

1. October 23, 1987 Application received.

2. October 29, 1987 Application designated for APPROVAL by MP and KLJ.

3. Comments:

Conditions:
This application is hereby APPROVED, dated November 3, 1987, subject to prior rights and this application will expire on November 3, 1988.

Robert L. Morgan, P.E.
State Engineer

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TIN CUP MESA # 5-26 WELL LOCATED IN SECTION 26, TOWNSHIP 38 SOUTH, RANGE 25 EAST, S.L.M., SAN JUAN COUNTY, UTAH, AS A CLASS II INJECTION WELL : CAUSE NO. UIC-103

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Marathon Oil Company, has requested administrative approval of the Tin Cup Mesa # 5-26 well, Section 26, Township 38 South, Range 25 East, S.L.M., San Juan County, Utah, as a Class II injection well.

The proposed operating data for the well is as follows:

INJECTION INTERVAL: Paradox Formation 5530' to 5555'
MAXIMUM SURFACE PRESSURE: 3600 psig
MAXIMUM INJECTION RATE: 4000 bwpd

Administrative approval of this application will be granted, unless objections are filed within fifteen days after publication of this Notice. Objections should be mailed to the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 3 Triad Center, Suite 350, 355 West North Temple, Salt Lake City, Utah 84180-1203.

DATED this 12th day of November, 1987.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marjorie L. Anderson
MARJORIE L. ANDERSON
Administrative Assistant

Notice for UIC-103 was sent to the follwing on 11-12-87

Bureau of Land Managment
P.O. Box 970
Moab, Ut. 84532

Marathon Oil Co.
P.O. Box 2690
Cody, Wyo. 82414

Mobil Oil Corp.
P.O. Box 5444
Denver, Co. 80217

Celsius Energy Co.
P.O. Box 11070
SaltLake City, Ut. 84147

MCOR Oil and Gas Corp.
5718 Westheimer
Houston, Texas 77057

San Juan Record
Legal Advertising
P.O. Box 879
Monticello, Ut. 84535

Newspaper Agency Corp.
Legal Advertising
157 Regent Street
Salt Lake City, Ut. 84110

11-12-87

Rocky Mountain Region
Production United States

Marathon
Oil Company

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

November 6, 1987

RE: Application to Drill a Water Injection Well
Tin Cup Mesa #5-26
Lease #U-31928
Sec. 26, T38S, R25E
San Juan County, Utah

Gentlemen:

In accordance with the Utah Division of Oil, Gas and Mining rules and regulations, we are enclosing a copy of the application requesting approval to drill and inject water into the above referenced well.

Copies of this application are on file in the State of Utah, Division of Oil, Gas and Mining office located in Salt Lake City, Utah, and in the Marathon Oil Company office in Cody, Wyoming.

Sincerely,

MARATHON OIL COMPANY

J. R. Kearns
Production Manager
Rocky Mountain Region

JRK/FMK:kjw

Attachment

Rocky Mountain Region
Production United States

Marathon Oil Company

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

November 6, 1987

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Application for Approval to Drill the Class II Injection Well:
Tin Cup Mesa #5-26
SWNE 1,375' FNL & 1,635' FEL
Section 26, Township 38 South, Range 25 East
San Juan County, Utah

Dear Sir:

Pursuant to R615-5-2 of the Rules and Regulations of the State of Utah, Division of Oil, Gas and Mining, Marathon Oil Company hereby makes application for approval to drill and operate Tin Cup Mesa #5-26 as a Class II Water Injection well. The information requested by Rule R615-5-2 of the DOGM is as follows:

1. The proposed injection well, Tin Cup Mesa #5-26 will be completed, equipped, operated and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.

2. A properly completed Form DOGM-U1C-1: Exhibit "A".

3. A plat showing the locations of the proposed injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well. Exhibit "B" and Exhibit "B-1".

4. Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity will be submitted to the DOGM upon their completion.

5. A copy of cement bond or comparable log run for the proposed injection well after casing has been set and cemented will be submitted to the DOGM upon its completion.

6. A description of the casing or proposed casing program of the injection well is shown in Exhibit "C". The casing will be pressure tested to 3000 psi surface and witnessed by the DOGM prior to commencing injection operations.

7. The type of fluid to be used for injection will be Cutler Formation Water obtained from the Tin Cup Mesa #1 water supply well and produced Ismay formation water which is separated from produced oil at the Tin Cup Mesa Processing Facility. The Tin Cup Mesa Processing Facility and the Tin Cup Mesa #1 Water Supply Well are both located in the NW¼ of Section 25, Township 38 South, Range 25 East, San Juan County, Utah. It is estimated that a maximum of 4000 BWPD will be injected.

8. Laboratory analyses are shown in Exhibit 'D' of :

   A) the fluid to be injected (Cutler and Ismay)
   B) the fluid in the formation into which the fluid is being injected (Ismay)
   C) As shown on Exhibit "D" the Cutler water is of higher purity than the Ismay water.

9. The proposed injection pressures are:

   Average 2400 psi
   Maximum 3600 psi

10. Evidence and data to support a finding that the proposed injection well, will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata is as follows:

    Injectivity tests were previously performed on Tin Cup Mesa #1-25 and #3-23 in the same Upper Ismay reservoir. Water was injected through existing production perforations. From these tests a fracture pressure and frac gradient were obtained. Refer to Exhibits "E" and "F". Results are summarized below.

	Tin Cup Mesa #3-23	Tin Cup Mesa #1-25
Frac Gradient	1.12 psi/ft.	1.14 psi/ft.
Fracture Pressure (Bottom Hole)	6,300 psi.	6,200 psi.
Fracture Pressure (Surface)	3,867 psi.	3,848 psi.

Maximum surface injection pressure requested for Tin Cup Mesa #5-26 is 3,600 psi, which is more than 200 psi below fracture pressure. High pressure shut down devices and relief valves will be designed to operate at 3,500 psi and 3,600 psi, respectively, to insure that the fracture pressure will not be exceeded.

11. The injection zone is the Upper Ismay of the Paradox Formation. The Upper Ismay is composed of porous and permeable limestone and dolomite. At the #5-26 Tin Cup Mesa location, the injection zone is expected to be 161' thick with the top at 5,430' GL. The porous and permeable carbonate rocks vary in thickness from 0' to 120', but they are restricted to the Tin Cup Mesa Field only. Outside the field, the carbonate rocks are composed of tight limestone and they are less than 20' thick.

The confining stratum directly above the injection zone is the Upper Ismay massive anhydrite. The massive anhydrite is a dense, tight rock which is estimated to be 9' thick at the #5-26 Tin Cup Mesa location with the top at 5,421' GL. The anhydrite thins across the field to 5' and thickens away from the field to 90' or more. Above the massive anhydrite is an impermeable layer of interbedded anhydrite and calcareous and dolomitic shales. The thickness of this layer ranges between 20' and 45' and it is expected to be approximately 25' thick at the #5-26 location with the top at 5,396' GL. A black shale overlies the layer of interbedded anhydrite and shales.

The black shale is expected to be approximately 14' thick at the #5-26 Tin Cup Mesa location and the top will be at approximately 5,382' GL.

The massive anhydrite overlying the injection zone extends for three miles from the Tin Cup Mesa Field. The interbedded anhydrite and shales extend more than 3 miles from the Tin Cup Mesa Field. The black shale above the interbedded anhydrite and shales extends throughout the southern Paradox Basin. All three of these units, the massive anhydrite, the interbedded anhydrite and shales, and the black shale, are impermeable and they will effectively seal off the oil, gas, and water of the injection zone from any strata above the Upper Ismay.

The confining stratum below the injection zone is the Hovenweep Shale. The Hovenweep Shale is composed of impermeable calcareous and dolomitic shales. The Hovenweep is approximately 168' thick at the #5-26 Tin Cup Mesa location and the top is at 5,591'. The Hovenweep extends more than a few miles beyond the Tin Cup Mesa Field and throughout the southern Paradox Basin. The Hovenweep is impermeable and it will effectively seal off the oil, gas, and water of the injection zone from any strata below the Upper Ismay.

12. There are six wells located within a one-half mile radius of the proposed #5-26 Tin Cup Mesa Well, shown on Exhibit "G". Well bore schematics showing the mechanical condition for each well are attached. (Exhibit "G-1" thru Exhibit "G-6"). As shown on each wellbore diagram, the cement top behind the casing of each well is of sufficient height to prevent migration of any fluid up or down from the interested zone.

13. An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well is attached as Exhibit "H".

14. If additional information is required please contact the Marathon Oil Company office in Cody, Wyoming.

If no objections to the granting of this Application are timely filed for drilling and injecting into the Ismay Formation in the proposed Tin Cup Mesa #5-26 well from any lease operators, owners or surface owners within a one-half (½) mile radius thereof, Applicant requests that this "Application" be approved administratively.

If objections to the drilling and injecting into the Ismay Formation in the proposed Tin Cup Mesa #5-26 well are timely filed, then Applicant requests that the matter be set for hearing and that it be advised of the hearing date.

Six (6) additional copies of this Application are attached hereto.

Respectfully submitted,

MARATHON OIL COMPANY

J. R. Kearns
Production Manager
Rocky Mountain Region

JRK/FMK:kjw

Attachments

FORM NO. DOGM-UIC-1

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5)

RECEIVED
NOV 09 1987
DIVISION OF
OIL, GAS & MINING

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company
ADDRESS P. O. Box 2690
Cody, Wyoming ZIP 82414
INDIVIDUAL ___ PARTNERSHIP ___ CORPORTATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE Tin Cup Mesa #5-26 WELL
SEC. 26 TWP. 38S RANGE 25E
San Juan COUNTY, UTAH

CAUSE NO. ___

ENHANCED RECOVERY INJ. WELL XX
DISPOSAL WELL ☐

APPLICATION

Comes now the applicant and shows the Division the following:
1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name: Tin Cup Mesa	Well No.: 5-26	Field: Tin Cup Mesa	County: San Juan
Location of Enhanced Recovery Injection or Disposal Well: 1375'FNL&1635'FEL Sec. 26		Twp. 38S	Rge. 25E
New Well To Be Drilled: Yes ☒ No ☐	Old Well To Be Converted: Yes ☐ No ☒	Casing Test: Yes ☐ No ☐ Date (Will Notify)	
Depth-Base Lowest Known Fresh Water Within ½ Mile: None	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile: YES ☒ NO ☐	State What: Oil & Gas	
Location of Injection Source(s): N26°1'W 1,881' to NW corner of Section 25	Geologic Name(s) and Depth of Source(s): Cutler 2900' KB and Upper Ismay Produced Water		
Geologic Name of Injection Zone: Ismay	Depth of Injection Interval: 5530' to 5555' Gross (Proposed)		
a. Top of the Perforated Interval: (Proposed) 5530'	b. Base of Fresh Water: 0	c. Intervening Thickness (a minus b): 5530'	

Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO

Lithology of Intervening Zones: Sandstones, Siltstones, Shales, Limestones, and Anhydrite

Injection Rates and Pressures
Maximum: 4000 B/D
3600 PSI

The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent

See Exhibit 'H' of the Attached Class II Injection Well Application

State of Wyoming)
County of Park)

J. R. Kearns
Applicant
Production Manager

Before me, the undersigned authority, on this day personally appeared J. R. Kearns, Rocky Mountain Region known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 4th day of Nov., 1987

SEAL

Notary Public State of Wyoming County of Park My Commission Expires 9-16-1988

My commission expires 9-16-1988

Connie A Shwartz
Notary Public in and for Wyoming

(OVER)

Exhibit 'A'

FORM DOGM-UIC-1 (continued)

INSTRUCTIONS

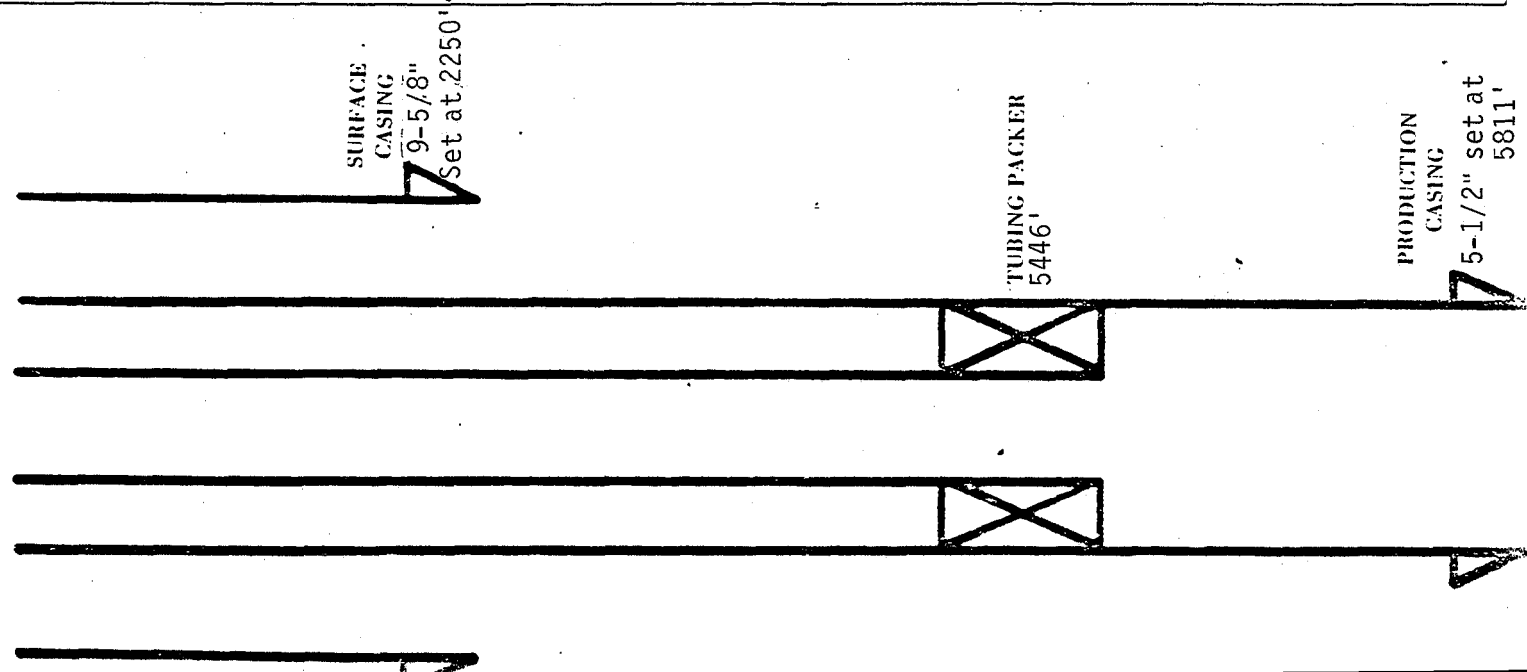
1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.
2. Attach qualitative and quantitative analysis of representative sample of water to be injected.
3. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within ½ mile, together and with name of operator.
4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)
5. Attach Electric or Radioactivity Log of Subject well (if released).
6. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.
8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.
9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.
10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application will be approved administratively.
11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.
12. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
13. If there is less intervening thickness required by Rule I-5 (b) 4 attach sworn evidence and data.

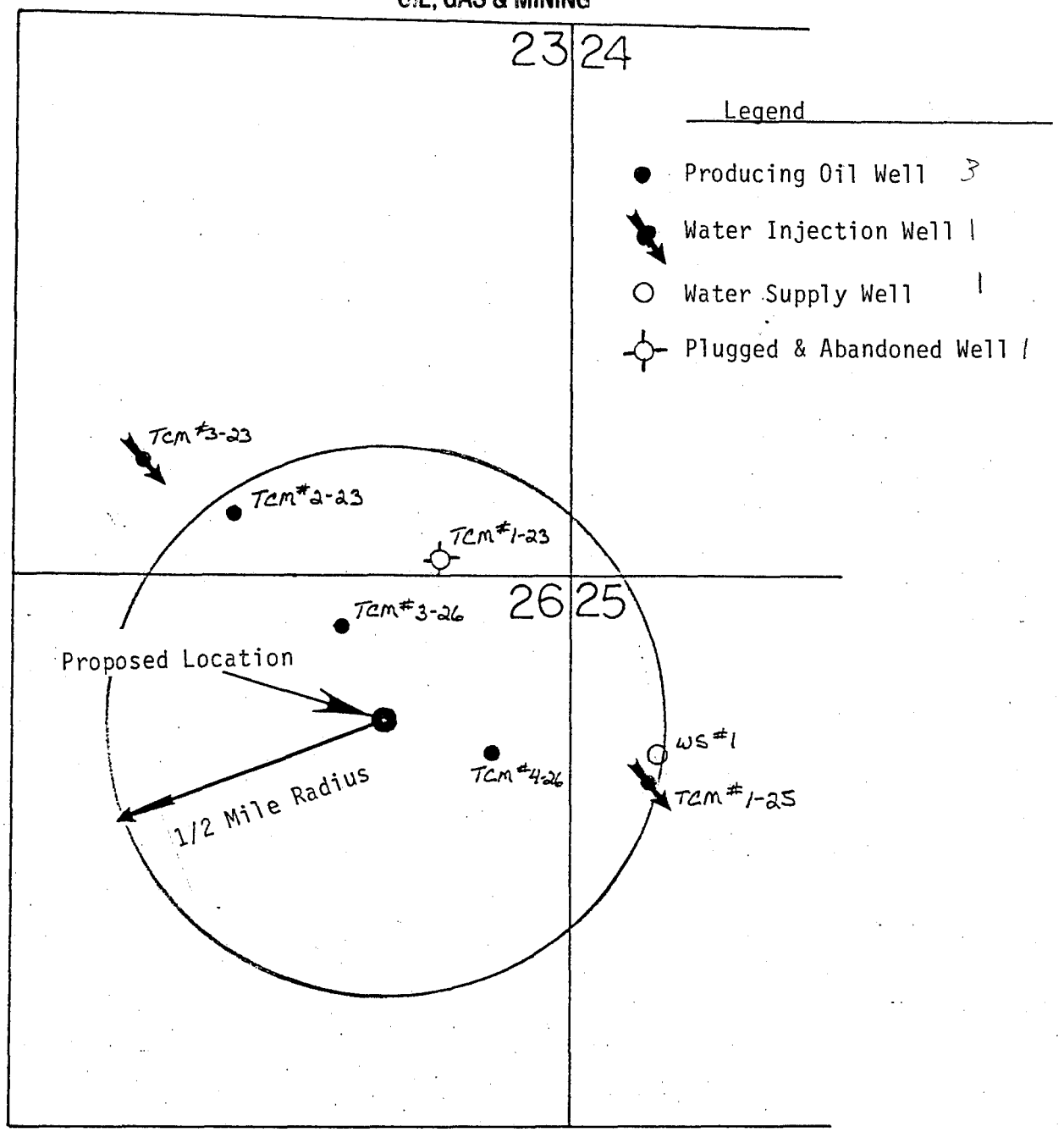
CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9-5/8"	2250'	865	Surface	Returns and Sight
Intermediate					
Production	5-1/2"	5811'	470	2150'	Logs will be run
Tubing	2-7/8"		Name - Type - Depth of Tubing Packer Type of packer will be determined at a later date		

Total Depth	Geologic Name - Inj. Zone	Depth - Top of Inj. Interval	Depth - Base of Inj. Interval
	Ismay	5530'	5555'

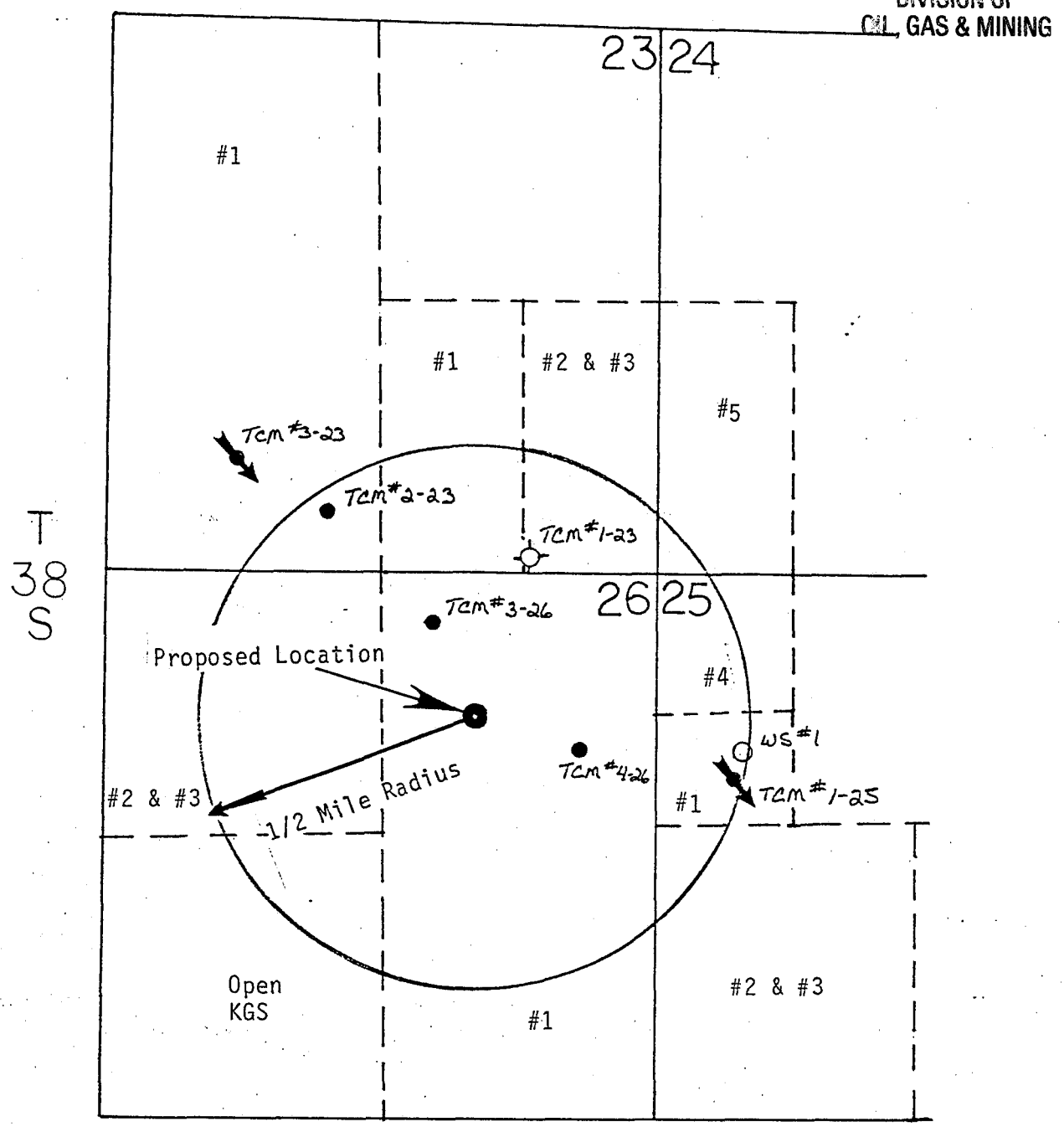
SKETCH - SUB-SURFACE FACILITY





Surface Owner of all lands within a one-half mile radius is the Department of the Interior, Bureau of Land Management.

Exhibit 'B'

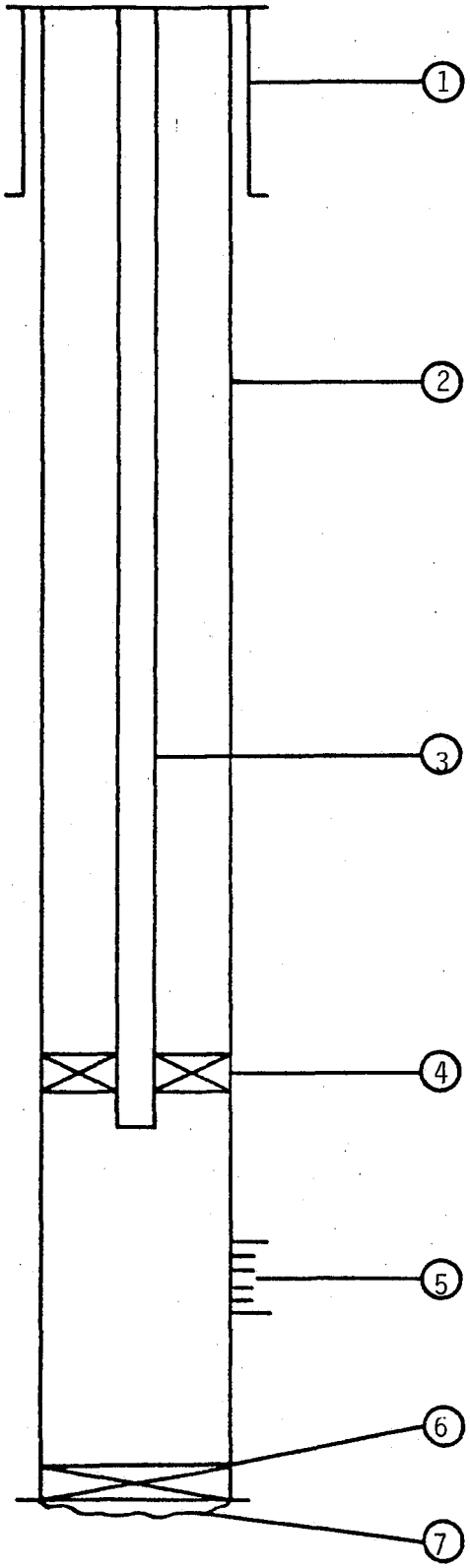


LEASE OWNERS WITHIN A ONE-HALF MILE RADIUS

1. Marathon Oil Company
2. Mobil Oil Corporation
3. Celsius Energy Company
4. MCOR Oil & Gas Corporation
5. TXP Operating Company

Exhibit 'B-1'

Proposed Tin Cup Mesa #5-26
Water Injection Well



DESCRIPTION

1. 9-5/8", 36#, K-55 casing set at 2250' and cemented to surface.
2. 5-1/2" 15.5#&17#, K-55 casing set from TD 5811' to surface and cemented to approximately 2150'.
3. 2-7/8" 6.5#, J-55 Internally coated tubing landed in the packer.
4. Packer set at approximately 5446'.
5. Proposed Ismay Perforations 5530'-5555'.
6. PBTD at approximately 5800'
7. TD 5811'

Exhibit 'C'

Exhibit 'D'

SUUMARY ANALYSES*
AT TIN CUP MESA, UTAH

	Cutler Water Properties	Ismay Water Properties
PH	7.9	6.4
Temp °F	68	100
TDS (mg/l)	75,562	256,894
TSS (mg/l)	< 1.0	N.A.
Ca (mg/l)	4,840	11,235
Na (mg/l)	18,360	67,880
Cl^- (mg/l)	39,440	147,008
O_2 (ppb)	< 10	< 100
CO_3 (mg/l)	< 1	< 1
Fe (mg/l)	1.7	9.0
H_2S (mg/l)	< 0.1	< 0.1
SO_4 (mg/l)	1,380	735
HCO_3 (mg/l)	41	67
K (mg/l)	78	2,864
Sr (mg/l)	170	375
Ba (mg/l)	< 20	< 20

*These tests were performed by DRC personnel.

EXHIBIT F

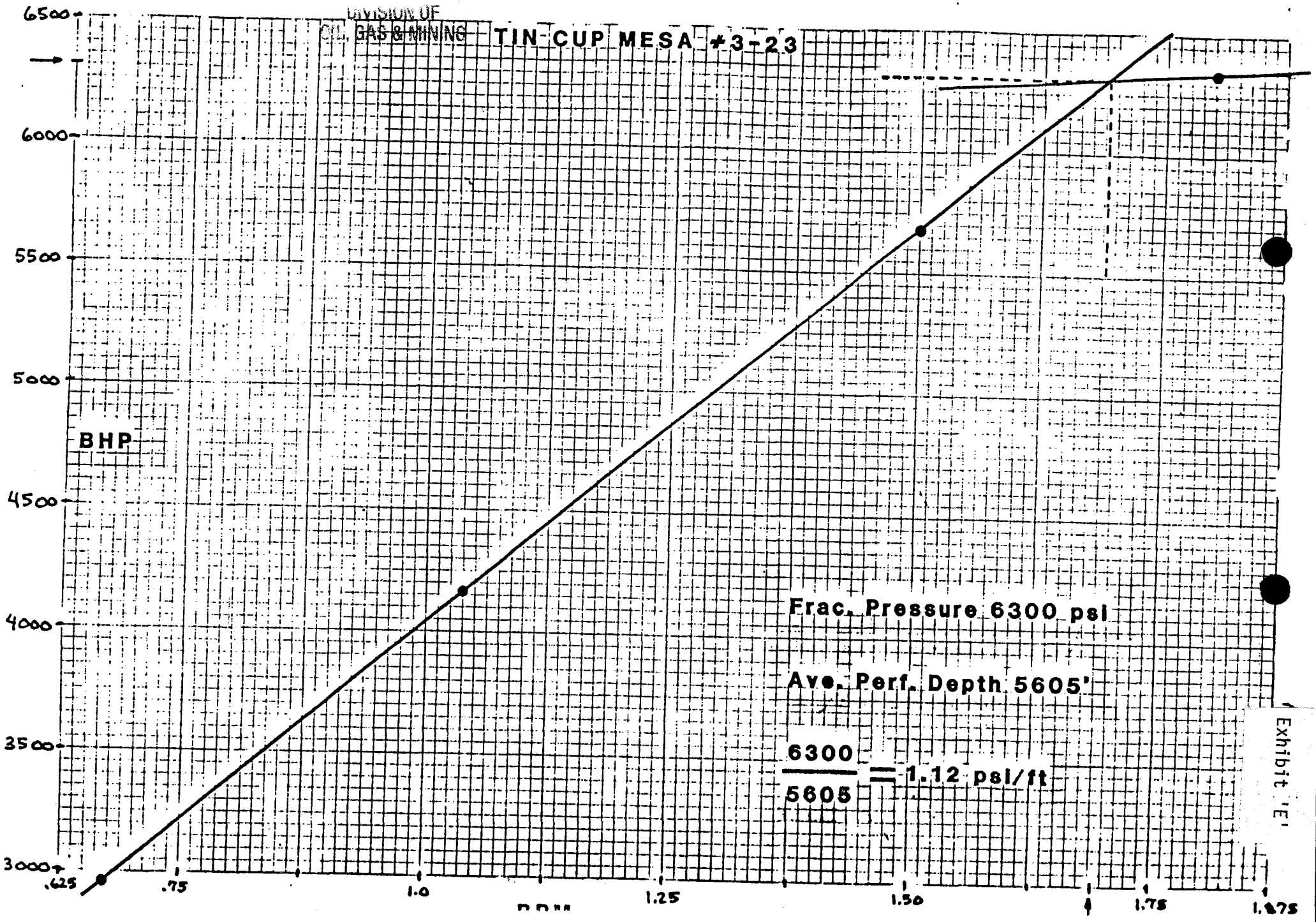


Exhibit 'E'

EXHIBIT G

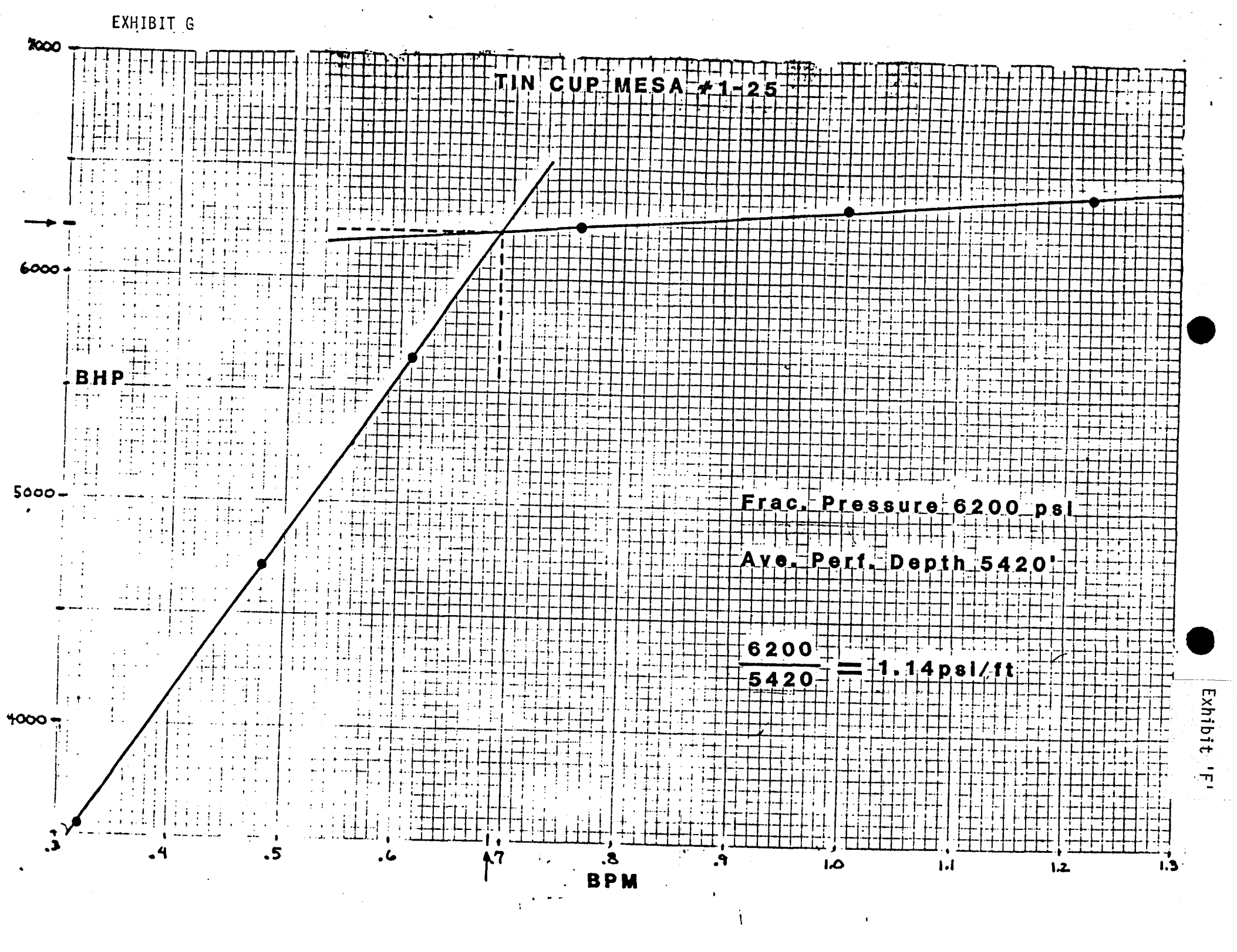
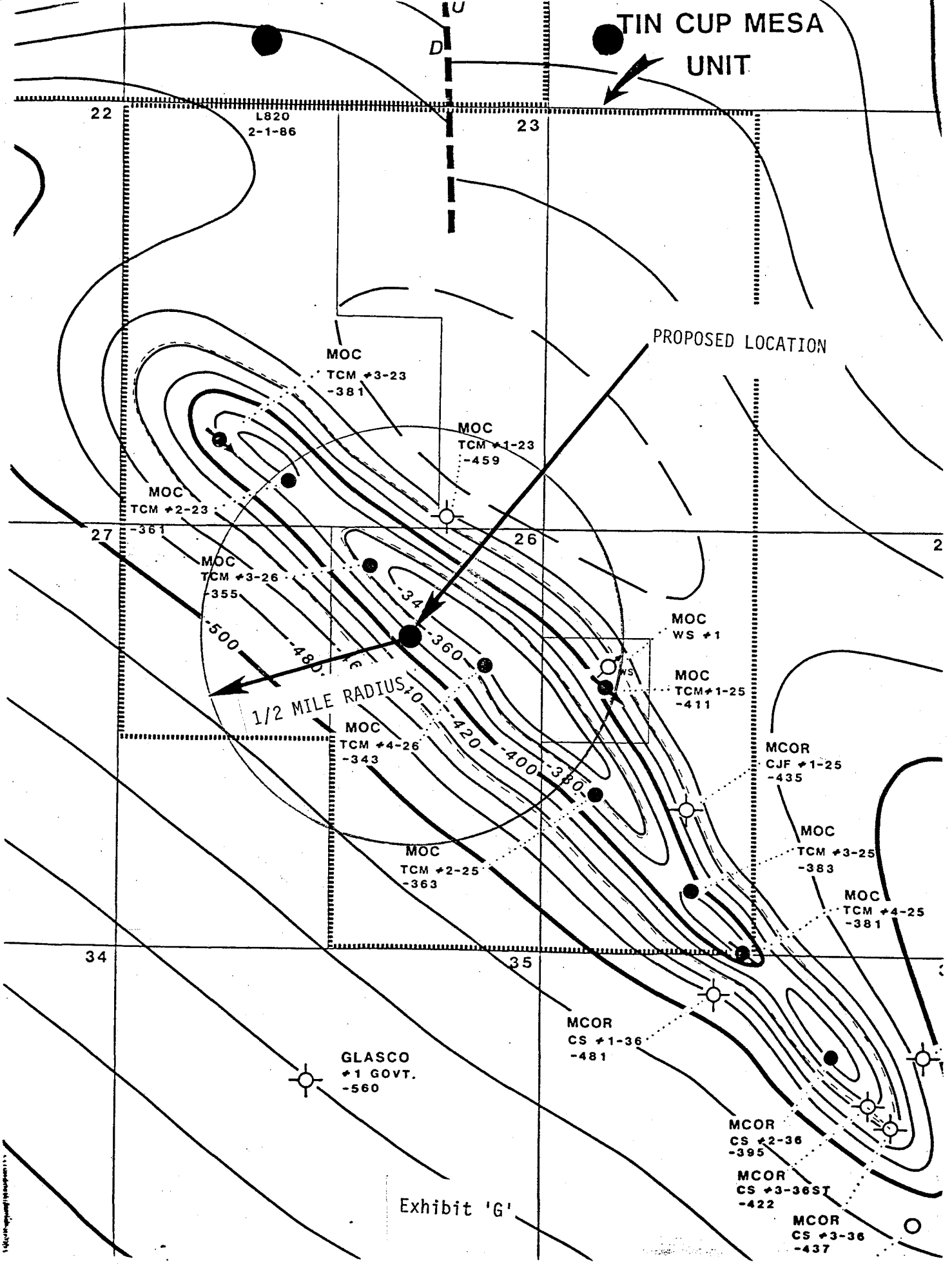
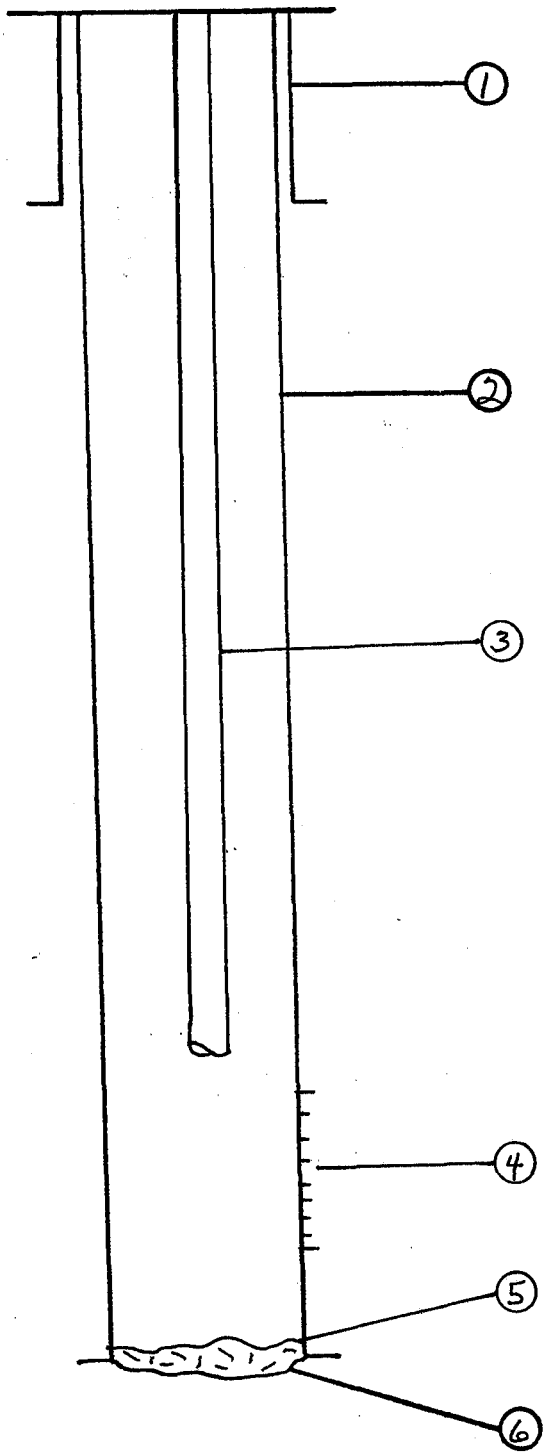


Exhibit 'F'


TIN CUP MESA
UNIT
D
U
22
23
L820
2-1-86
PROPOSED LOCATION
MOC
TCM #3-23
-381
MOC
TCM #1-23
-459
MOC
TCM #2-23
-361
27
26
MOC
TCM #3-26
-355
-500
-480
-340
-360
MOC
WS #1
MOC
TCM #1-25
-411
1/2 MILE RADIUS
MOC
TCM #4-26
-343
-420
-400
-380
MCOR
CJF #1-25
-435
MOC
TCM #2-25
-363
MOC
TCM #3-25
-383
MOC
TCM #4-25
-381
34
35
MCOR
CS #1-36
-481
GLASCO
#1 GOVT.
-560
MCOR
CS #2-36
-395
MCOR
CS #3-36ST
-422
MCOR
CS #3-36
-437
Exhibit 'G'

Tin Cup Mesa
Water Supply Well #1
Sec. 25, T38S, R25E
San Juan Co., Utah

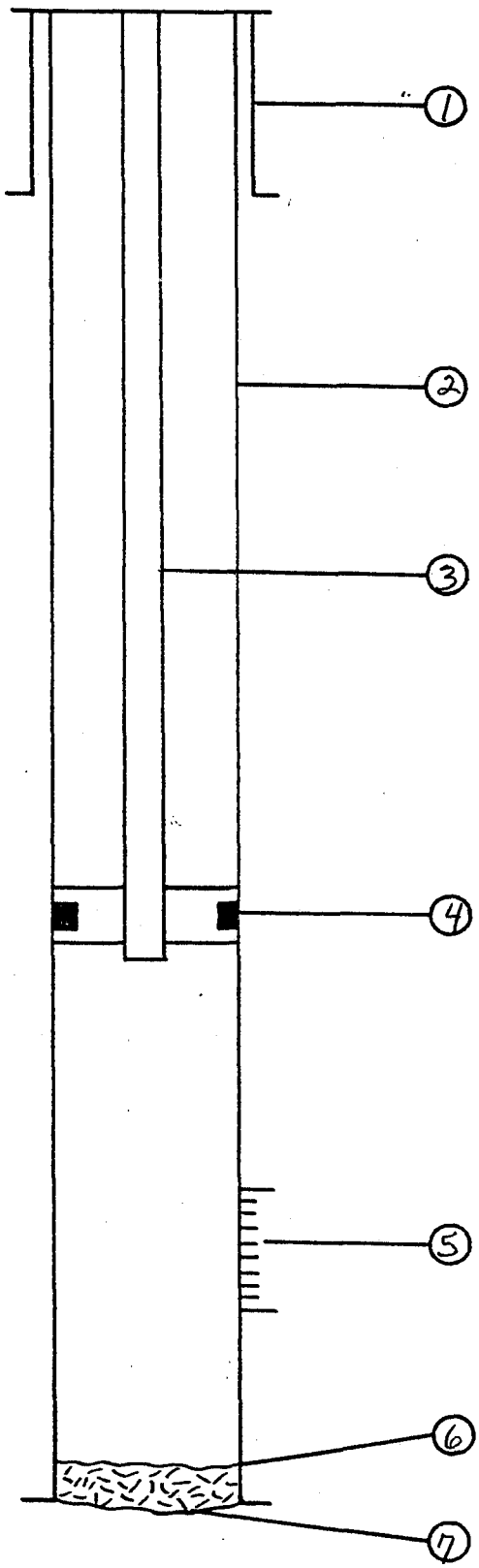


Description

1. 9 5/8" 40# S-80 casing set at 1,489' and cemented to surface.
2. 7" 23# N-80 casing set at 3,414' and cemented to surface.
3. 3½' 9.3# J-55 tubing set at 2,007'.
4. Cutler Formation perforations 2,410' - 2,424', 2,438' - 2,450', 2,458' - 2,466', 2,914' - 2,924', 2,932' - 2,946', 3,001' - 3,013', 3,226' - 3,236', 3,106' - 3,116', 3,188' - 3,196', 3,246' - 3,258' KB.
5. PBTD 3,315'.
6. TD 3,415'.

EXHIBIT 'G-1'

Tin Cup Mesa
Water Injection Well #1-25
Sec. 25, T38S, R25E
San Juan Co., Utah

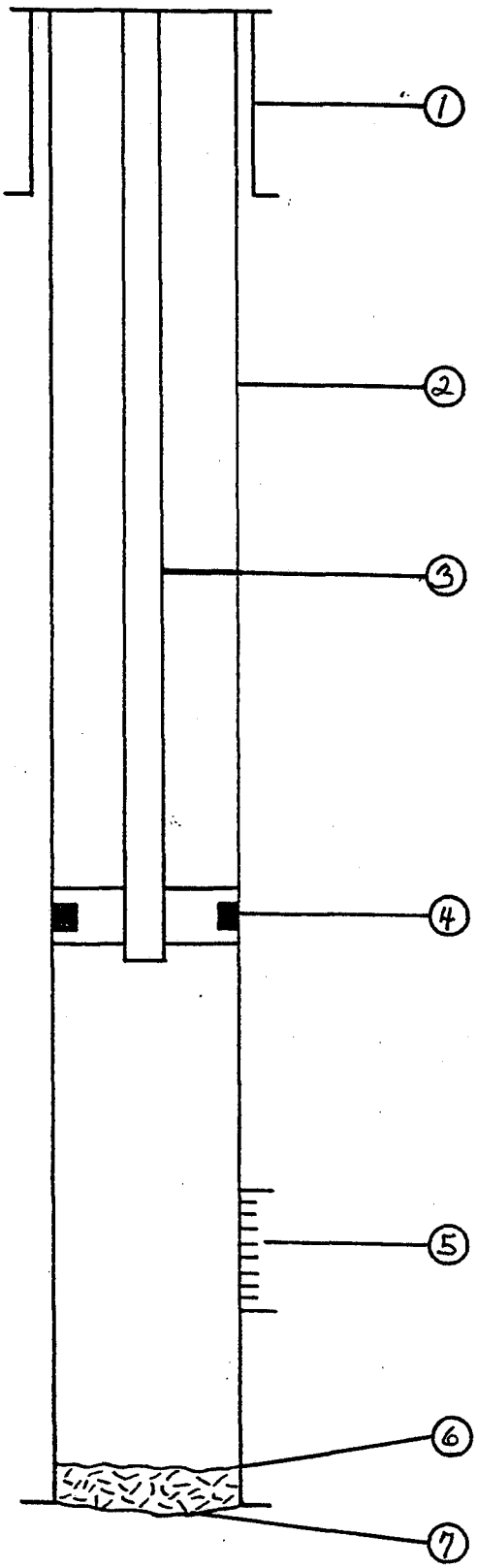


Description

1. 9 5/8" 36# K-55 casing set at 1,557', cemented with 640 sacks of cement to surface and tested to 1,500 psi.
2. 7" 23# and 26# K-55 casing set at 5,712', cemented with 995 sacks of cement to 1,520' KB (CBL) and tested to 3,000 psi.
3. 2 7/8" tubing landed in packer.
4. Packer set at 5,346' KB.
5. Ismay Perforations 5,416' - 5,426'.
6. PBTD 5,460' KB.
7. TD 5,714' KB.

EXHIBIT 'G-2'

Tin Cup Mesa #3-26
Sec. 26, T38S, R25E
San Juan Co., Utah

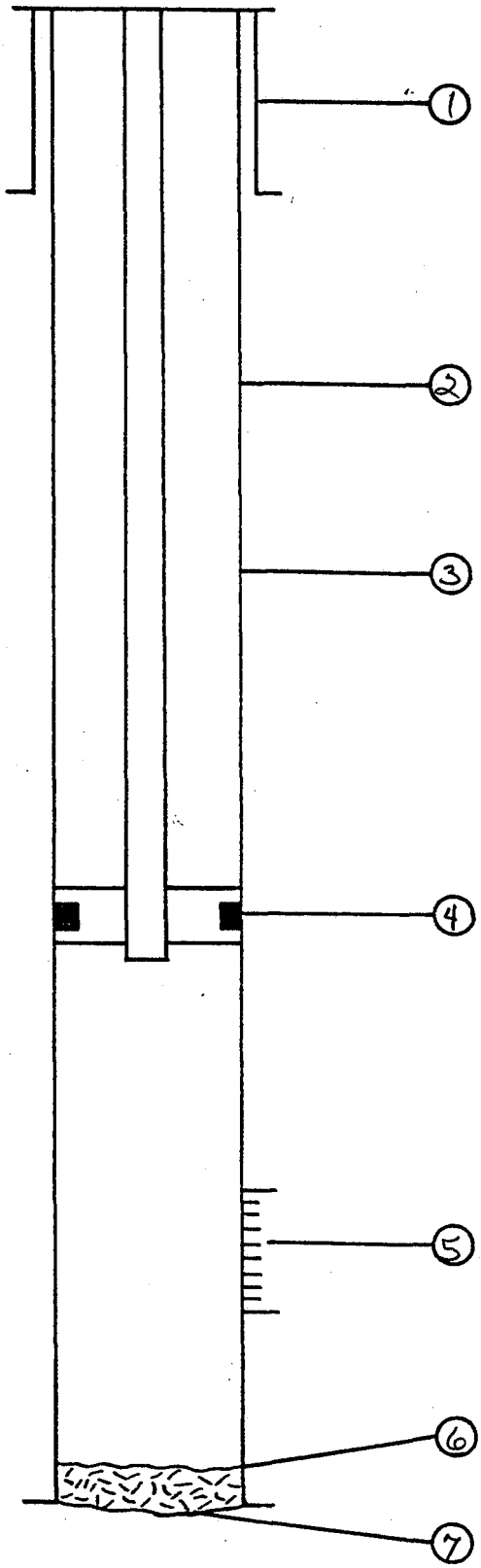


Description

1. 13 3/8" 54,5# K-55 casing set at 1,224' and cemented to surface with 1,200 sacks of cement.
2. 7" 20#, 23#, and 26# K-55 casing set at 5,774' and cemented with 1,220 sacks of cement to 970' KB.
3. 2 7/8" 6.5# N-80 tubing landed in the packer.
4. Packer set at 5,436' KB.
5. Ismay perforations 5,482' - 5,531'.
6. PBTD 5,695'.
7. TD 5,780'.

EXHIBIT 'G-3'

Tin Cup Mesa #4-26
Sec. 26, T38S, R25E
San Juan Co., Utah

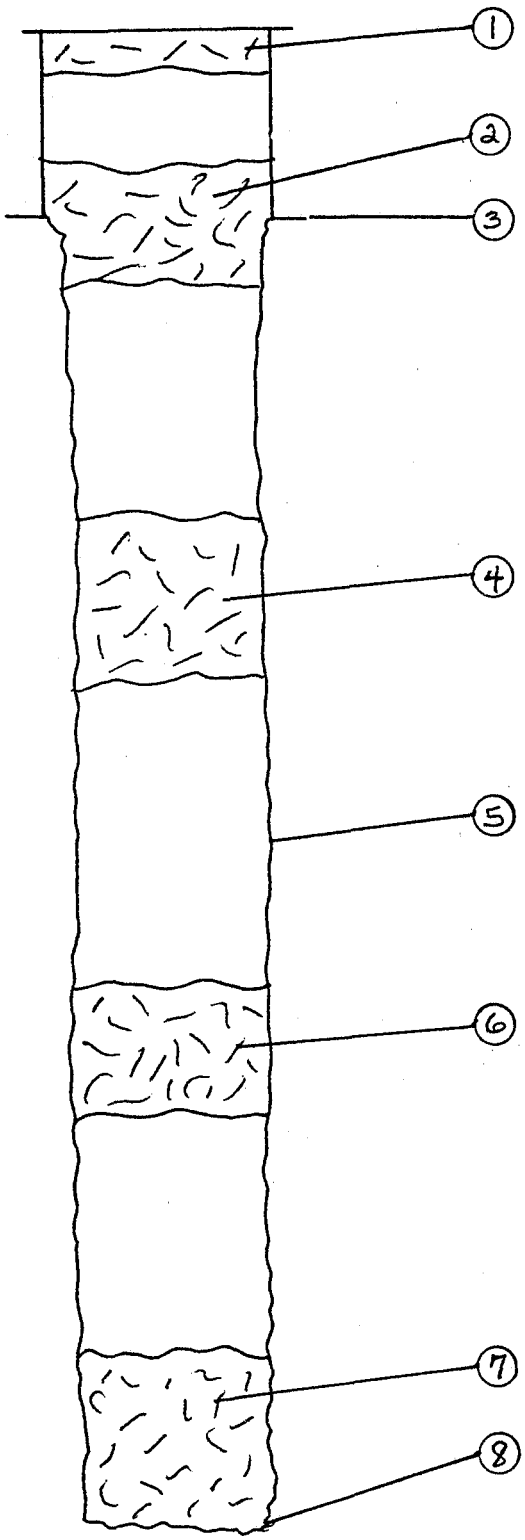


Description

1. 9 5/8" 40# N-80 casing set at 1,500' and cemented to surface with 610 sacks of cement.
2. 7" 26# K-55 casing set at 5,814' and cemented to surface with 1,125 sacks of cement.
3. 2 7/8" 6.5# N-80 tubing landed in the packer.
4. Packer set at 5,441' KB.
5. Ismay perforations 5,504' - 5,562'.
6. PBTD 5,726' KB.
7. TD 5,815' KB.

EXHIBIT 'G-4'

Tin Cup Mesa #1-23
Sec. 23, T38S, R25E
San Juan Co., Utah



Description

1. A Ten sack cement plug to surface.
2. A 75 sack cement plug from 1,250' - 1,450'.
3. 9 5/8" 36# K-55 casing set at 1,348' and cemented to surface with 546 sacks of cement.
4. A 70 sack cement plug from 2,470' - 2,670'.
5. Open hole - uncased to a TD of 5,810'.
6. A 70 sack cement plug from 4,225' - 4,425'.
7. A 455 sack cement plug from 5,350' - 5,810'.
8. TD 5,810'.

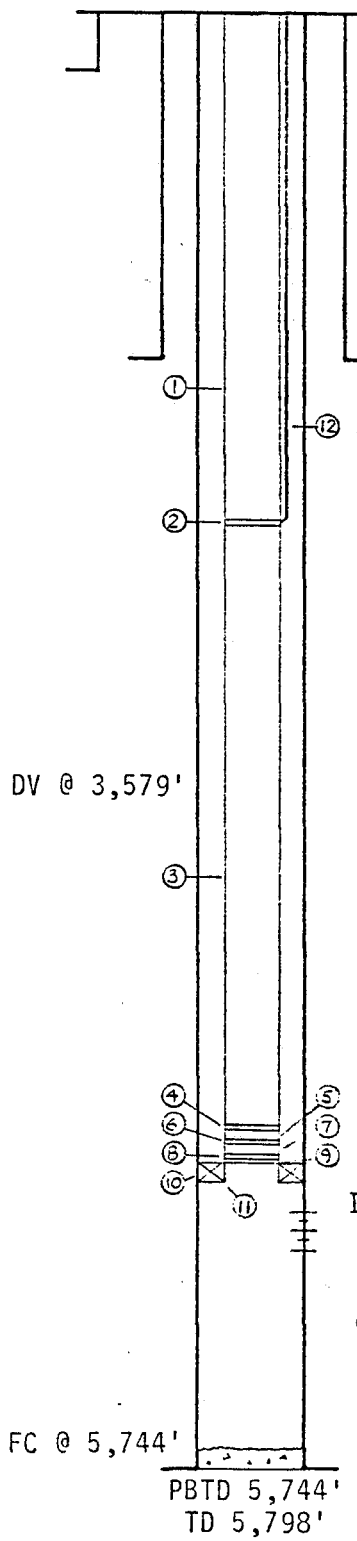
EXHIBIT 'G-5'

TIN CUP MESA #2-23

587' FSL & 3,171' FEL
Section 23, T38S, R25E
San Juan County, Utah

Completed: 1/26/83

5,108' KB
5,095' GL



16", Thinwall Steel set @ 64'

9 5/8", 36#, K-55 set @ 1,324' cmt with 550 sx

Tubing String:

		Set (Top)
1.	2 7/8", 6.5#, J-55 Tbg. (2.441" ID)	Surface
2.	Injection Nipple (2.441" ID)	2,456'
3.	2 7/8", 6.5#, J-55 Tbg. (2.441" ID)	2,458'
4.	Seating Nipple (2.28" ID)	5,401'
5.	2 7/8" x 6' Sub (2.441" ID)	5,402'
6.	"F" Nipple (2.25" ID)	5,408'
7.	2 7/8" x 6' Sub (2.441" ID)	5,409'
8.	On-off Tool (2.31" ID)	5,415'
9.	R Nipple with No-go (2.25" x 2.197" ID)	5,417.5'
10.	Baker Model A-2 Packer (2.375" ID)	5,418.5'
11.	Bottom of Packer @ 5,424'	
12.	1/4" Steel Tbg. Banded to 2 7/8" Tbg.	

Ismay 5,480-5,500' 4 SPF – Sqzd with 25 sx. Re-perfed 5,492-5,500'
2 SPF, 5,507.5-12.5' 2 SPF, 5,520-25' 2 SPF

5 1/2", 20#, N-80 set @ 5,779' cmt with
1st Stage: 800 sx Class B
2nd Stage: 1,000 sx Class B 65/35 Poz, 6% Bentonite

EXHIBIT 'G-6'

State of Utah
Division of Oil, Gas and Mining

EXHIBIT "H"

Application of Marathon Oil Company
to Drill the Water Injection Well
Tin Cup Mesa #5-26, located in
Section 26, Township 38 South,
Range 25 East, San Juan County, Utah

AFFIDAVIT

STATE OF UTAH)
) SS.
COUNTY OF SAN JUAN)

J. R. Kearns, of legal age, being first duly sworn, upon oath states:

The following named people constitute all lease operators, owners, and surface owners (as defined by the Utah Division of Oil, Gas and Mining Laws) within a one-half (1/2) mile radius of the proposed injection well, described in the Application to which this Affidavit is attached, to wit:

Surface Owners

Bureau of Land Management
P.O. Box 970
Moab, Utah 84532

Lease Holders

Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

Bureau of Land Management
P.O. Box 970
Moab, Utah 84325

Mobil Oil Corporation
P.O. Box 5444
Denver, Colorado 80217

Celsius Energy Company
P.O. Box 11070
Salt Lake City, Utah

MCOR Oil and Gas Corporation
5718 Westheimer
Houston, Texas 77057

State of Utah
Division of Oil, Gas and Mining
Exhibit 'H'
Page Two

TXP Operating Company
Box 1396
Houston, Texas 77251

The addresses listed after the names of the operator and surface owners constitute the last mailing address of said operator and owner as far as the applicant Marathon Oil Company and the undersigned have been able to ascertain.

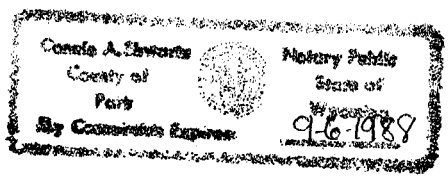
On the 6th day of November, 1987, Applicant caused a full and true copy of the Application to which this Affidavit is attached, to be mailed to the operators or owners, other than Applicant, at their addresses herein mentioned.

J. R. Kearns
Production Manager
Rocky Mountain Region

Subscribed and sworn to before me this 6th day of November, 1987.

My commission expires 9-6-1988.

Connie A. Shwartz
Notary Public



Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

*Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER Water Injection SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Tin Cup Mesa

8. FARM OR LEASE NAME: Tin Cup Mesa

2. NAME OF OPERATOR: Marathon Oil Company

9. WELL NO.: 5-26

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1375' FNL & 1635' FEL
At proposed prod. zone:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 8.5 miles Northeast of Hatch Trading Post

12. COUNTY OR PARISH: San Juan | 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1555' to Unit Line / 905' Lease Line

16. NO. OF ACRES IN LEASE: 760

17. NO. OF ACRES ASSIGNED TO THIS WELL: N/A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: Approx. 988'

19. PROPOSED DEPTH: 5811'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' Ungraded GL

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	2250'	865 sacks to Surface
7-7/8"	5-1/2"	15.5# & 17#	5811'	470 sacks to 2150'

Marathon Oil Company proposes to drill Tin Cup Mesa #5-26 as a water injection well. A 12-1/4" hole will be drilled to 2250' and 2250' of new 9-5/8", 36#, K-55 casing will be run and cemented to surface. A 7-7/8" hole will then be drilled to 5811', TD and 5-1/2" 15.5# and 17#, K-55 casing will be run from TD to surface and cemented to approximately 2150'. The Ismay formation well be perforated, treated as necessary and the well will be completed as a water injection well.

BLM-Orig & 3--cc: UDOGM-7, WRF, FMK, Reservoir, Drilling-2, WTR, RDT, Title & Contract (Houston)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED R P Mealer TITLE Regulatory Coordinator DATE November 6, 1987

(This space for Federal or State office use)

PERMIT NO. 43-037-31368 APPROVAL DATE

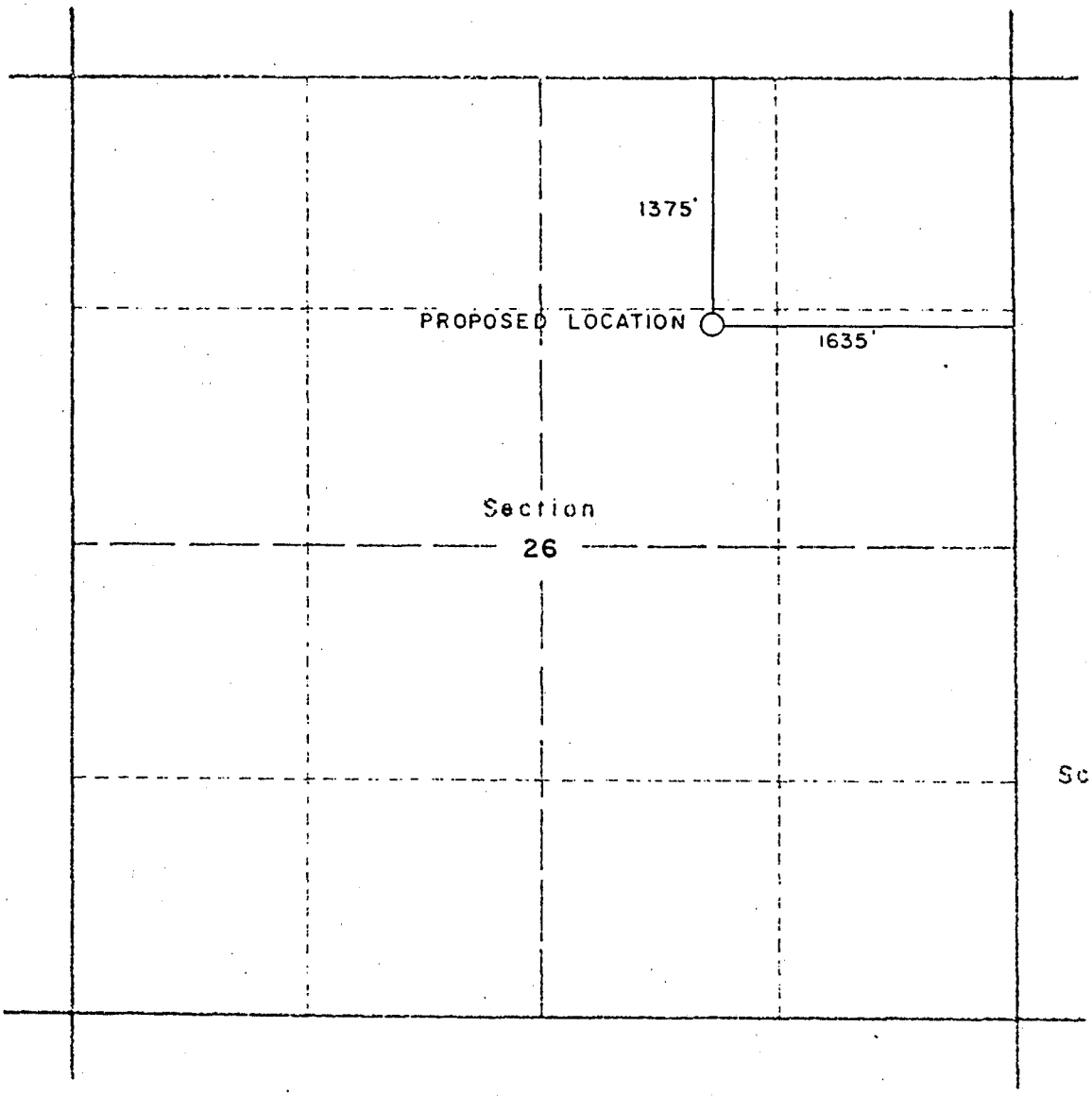
APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 12-7-87
BY: [illegible]
WELL SPACING: R615-2-3

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Scale: 1" = 1000'

WELL LOCATION: MARATHON OIL CO. - TIN CUP MESA No. 5-26

Located 1375 feet South of the North line and 1635 feet West of the East line of Section 26
Township 38 South Range 25 East Salt Lake Meridian

Existing ground elevation determined at 5101 feet based on Well No. 3-26,

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H. Reed

FREDERICK H. REED
Registered Land Surveyor

Exhibit 'B'

MARATHON OIL CO.
Cody, Wyoming

WELL LOCATION PLAT
Tin Cup Mesa No. 5-26
Sec. 26, T38S, R25 E
San Juan County, Utah

CLARK-REED & ASSOC
Surveyors - Consultants

DATE: Sept. 30, 1987
FILE NO 87019

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Water Injection SINGLE ZONE [X] MULTIPLE ZONE [ ]

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NOV 09 1987

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4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1375' FNL & 1635' FEL

DIVISION OF OIL, GAS & MINING

At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 8.5 miles Northeast of Hatch Trading Post

12. COUNTY OR PARISH: San Juan | 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1555' to Unit Line / 905' Lease Line

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19. PROPOSED DEPTH: 5811'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' Ungraded GL

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

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BLM-Orig & 3--cc: UDOGM-7, WRF, FMK, Reservoir, Drilling-2, WTR, RDT, Title & Contract (Houston)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED R P Nelson TITLE Regulatory Coordinator DATE November 6, 1987

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MOAB DISTRICT

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company: Marathon Oil Company Well Name: Tin Cup Mesa #5-26

Location: Section 26, T38S, R25E Lease No.: U-31928 (Tin Cup Mesa)

1375' FNL, 1635' FEL

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops: Refer to Item #2 of attached "Drilling Operations Plan".

2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered:

	Formation	Zone
Expected oil zones:	Refer to Item 3 of attached "DOP".	
Expected gas zones:	Refer to Item 3 of attached "DOP".	
Expected water zones:	Refer to Item 3 of attached "DOP".	
Expected mineral zones:	Refer to Item 3 of attached "DOP".	

"DOP" - Drilling Operations Plan

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: Refer to Item 7 of the attached "Drilling Operations Plan".

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. The San Juan Resource Area will be notified 1 day before pressure testing.

4. Casing Program and Auxiliary Equipment: Refer to Item 6A and 9A of the attached "Drilling Operations Plan".

Anticipated cement tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area will be notified 1 day before running casing strings and cement.

5. Mud Program and Circulating Medium: Refer to Item 8 of the attached "Drilling Operations Plan".

6. Coring, Logging and Testing Program: Refer to Item 4 of the attached "Drilling Operations Plan".

   Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted to the District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards: Refer to Item 5 of the attached "Drilling Operations Plan".

8. Anticipated Starting Dates and Notifications of Operations:

   The operator will contact the San Juan Resource Area at 801-587-2141, 48 hours before beginning any dirt work.

   No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

   The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

   In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the BLM District Office, P. O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is planned for completion operations, a Sundry Notice (Form 3160-5) to the effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes for failures, and in emergencies, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager, or the appropriate surface manager.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of the approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Federal Well Number, location by 1/4 1/4 section, township and range, Lease number.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

Other: _____

The following may be inspected and or witnessed:

1. The cementing and testing of surface casing, testing BOP's.

2. (Dry Hole) Setting and testing of surface casing shoe plug.

3. (Depleted Producer) The setting and testing of plugs across producing horizon and if applicable the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

Notify the San Juan Resource area (Mike Wade) one day or on dry hole as soon as possible prior to the above at (801) 587-2141 (Home) (801) 587-2026 or if unable to reach Mike, call Moab District office Steve Jones (801) 259-6111.

MARATHON OIL COMPANY
Tin Cup Mesa #5-26
AFE #5-577-7
Drilling Operations Plan
1375' FNL, 1635' FEL,
Sec. 26, T38N, R25W
San Juan County, Utah
Elevation: 5111' KB (est.)
5095' GL

November 2, 1987

1. Geologic name of surface:

   Jurrasic Morrison Formation

2. Estimated tops of important geologic markers:

Formation	Depth (K.B.)	Depth (From Sea Level)
Upper Ismay	5430'	-319'
Hovenweep	5591'	-480'
Lower Ismay	5623	-512'
Gothic	5676'	-565'
Desert Creek	5691'	-580'
Chimney Rock	5771'	-660'
Akah	5791'	-680'
TD	5811'	-700'

3. Estimated depths of anticipated water, oil, gas or other mineral bearing formations:

Formation	Depth (K.B.)	Possible Content
Upper Ismay	5430	Gas-Oil

4. Sample, logging, testing, and coring program:

DLL-GR-Cal from TD to surface casing with GR to surface.

FDC-CNL-GR-Cal from TD to surface casing.

BHC Sonic from TD to surface casing.

Fracture ID log from TD to surface casing.

No coring or testing is anticipated.

Samples will be caught, bagged, and dried in 30' intervals from 4300' to 5200' and then in 10' intervals to TD or as specified by the Company Representative.

5. Anticipated pressures or temperatures:

Maximum anticipated bottom hole pressure is 1600 psi.

Maximum anticipated bottom hole temperature is 136°F.

6a. The casing program including the size, grade, weight, whether new or used, and a setting depth of each string:

Min. Hole Size	Casing O.D.	Grade	Weight	Setting Depth	New or Used	Cplg
20"	16"	X-42	42.0#	80'	New	PE
12¼"	9 5/8"	K-55	36.0#	2,250'	New	ST&C
7 7/8"	5½"	K-55	15.5#	5,300'	New	LT&C
	5½"	K-55	17.0#	5,811'	New	LT&C

6b. The cementing program including type, amounts, and additives:

9 5/8" Surface Casing

Cement Height: 2250' to surface

The casing will be cemented with 600 sacks blended light cement followed by 265 sacks of blended Class 'B' cement. If cement column falls, a 1" top job will be performed. At least ten barrels of water will precede the cement slurry.

Lead Slurry: 1750' x .3132 ft^3/ft + 100% excess = 1096 ft^3

Weight:	12.7 ppg
Yield:	1.84 ft^3/sack
Mix Water:	9.9 gallons/sack
Cement Required:	600 sacks

6b. The cementing program: (continued)

Tail Slurry: 500' x .3132 ft^3/ft + 100% excess = 313 ft^3

Weight:	15.6 ppg
Yield:	1.18 ft^3/sack
Mix Water:	5.2 gallons/sack
Cement Required:	265 sacks

Casing equipment will include a float shoe, a float collar and centralizers placed in the middle of the shoe joint and at the top of every third joint to surface. Waiting on cement time will be eight hours; casing is not to be disturbed until cement has fully set.

5 1/2" Production Casing

Cement Height: 366' Cement Top: 2150'

The production casing will be cemented with 360 sacks of light-weight cement followed by 110 sacks of Class 'B' with 0.6% fluid loss additive.

The actual volume will be calculated from the caliper log + 25% excess to place the cement top inside the surface casing.

Lead Slurry: 3061' x .1733 ft^3/ft + 25% excess = 663 ft^3

Weight:	12.7 ppg
Yield:	1.84 ft^3/sack
Mix Water:	9.9 gal/sack
Cement Required:	360 sacks

Tail Slurry: 600' x .1733 ft^3/ft + 25% excess = 130 ft^3

Weight:	15.6 ppg
Yield:	1.18 ft^3/sack
Mix Water:	5.2 gal/sack
Cement Required:	110 sacks

Casing equipment will include a float shoe, a float collar and centralizers at one per joint from TD to 200' above the Ismay and spaced every third joint to surface casing. Cable type scratchers will be run every 15' from TD to 200' above the Ismay. After cementing, the casing will be landed in the head with the full weight of the casing string set in the slips.

Final cement volumes will be calculated from the Caliper log.

7. B.O.P. specification and testing:

A 16" hydril and diverter system will be used while drilling the surface hole.

BOP equipment will include pipe and annular preventer. All equipment while drilling below surface casing will have a minimum working pressure of 5000 psi. The accumulator will be of sufficient size to open and close all components without using the pump. The minimum testing requirements will be as follows:

a) All ram-type preventers will be tested to the rated working pressure of the stack or to 70% of the internal yield of the casing, whichever is less.
b) The annular-type preventer will be tested to 50% of its rated working pressure.
c) Tests will be run at the time of installation and following repairs, prior to drilling out of each casing shoe, and at least every 30 days.

8. Mud Program and anticipated pressures:

From	To	Type Mud	Weight	Vis.	Oil %	Water Loss
0'	2250'	Water/Gel	8.5	36-40	0	No Control
2250'	5000'	Chem-Gel	8.5-9.0	38-41	0	15-20
5000'	TD	Chem-Gel	8.5-9.0	41-45	0	12-15
Logging		Chem-Gel	8.5-9.0	50-55	0	12-15
Cementing		Chem-Gel	8.5-9.0	32-36	0	12-15

Treatment of the anhydrite section above the Ismay may be necessary to maintain good mud qualities.

9a. Type of drilling tools and auxiliary equipment:

A. A kelly cock of 5000 psi WP will be used.
B. A pit volume indicator, mud flow indicator, and pump pressure recorder will be used.
C. A 5000 psi working pressure full opening safety valve will be available to stab into the drill pipe when necessary if the kelly is not in the string.
D. Casing strings - "All casing strings shall be pressure tested (0.2 psi/ft. or 1000 psi, whichever is greater) prior to drilling the plug after cementing; test pressure should not exceed 70% of the casing's internal yield pressure.
E. A drilling rate recorder calibrated to record drilling time for each one foot interval will be used.

9b. Deviation Control:

Surface Location: 1375' FNL, 1635' FEL, Sec. 26, T38S, R25E

From	To	Maximum Distance Between Surveys	Maximum Deviation From Vertical	Maximum Change Per 100' of Depth
0'	2250'	250'	2°	1°
2250'	TD	1000'	TBA	TBA

The wellbore will be allowed to drift naturally.

10. The anticipated duration: 13 Days.

REGION APPROVAL

Approved Date

Originator: _____

THC: _____

FFS: FF Hoole 11/4/87

TNT: _____

DRT: _____

WTR: _____

DES: _____

JLM: _____

RJD: _____

JRK: _____

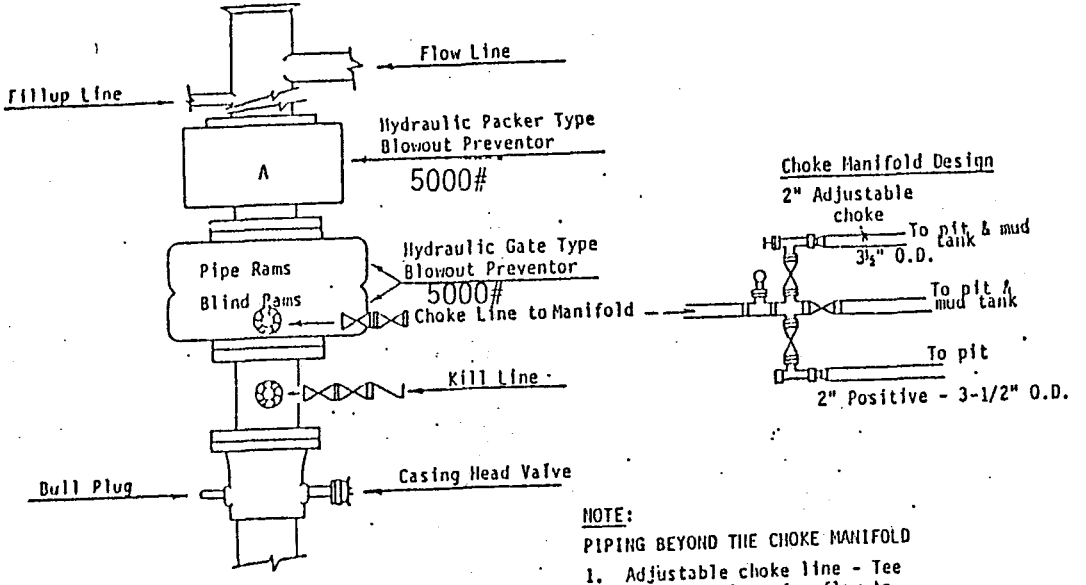
CASING DESIGN

Well Tin Cup Mesa #5-26 AFE # 5-577-7

Hole Size	Shoe Depth	T.O.C.	Casing O.D.	Drift	Grade	Wt.#/ft	Conn.	Tension - 1000 lbs			Collapse - PSI			Burst - PSI		
								Rating	Load	S.F.	Rating	Load	S.F.	Rating	Load	S.F.
12¼	2250	Surface	9.625	8.765	K-55	36#	ST&C	423	70.5	6.0	2020	1170	1.7	3387	2200	1.5
7 7/8	5300	2150	5.5	4.325	K-55	15.5	LT&C	239	77.1	3.1	4040	3100	1.3	4671	3538	1.3
7 7/8	5811	2150	5.5	4.767	K-55	17	LT&C	272	7.2	37.7	4910	3324	1.4	5090	3530	1.4

Tin Cup Mesa #5-26

AFE #5-577-7



NOTE:

PIPING BEYOND THE CHOKE MANIFOLD

1. Adjustable choke line - Tee and two valves for flow to either the mud tank or pit.
2. Full opening line - Tee and two valves for flow to either the mud tank or pit.

Exhibit 'D'

1. Blowout preventors, master valve, plug valves, and all fittings must be in good condition. Use new API seal rings.
2. All fittings (gates, valves, etc.) to be of equivalent pressure rating as preventors. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BOP to be plug type and nominal 3".
3. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is drilled through.
4. Safety valve (OMSCO or equivalent) must be available on rig floor at all times and with proper connections. The ID of safety valves should be as great as ID of tool joints or drill pipe.
5. Kelly safety valve installed, same working pressure as BOP.
6. All lines and controls to preventors must be connected and tested before drilling out of surface pipe.
7. BOP's must be fluid operated, complete with accumulator. Controls may be either on floor or ground near steps from rig floor.
8. Fillup line tied to drilling nipple, the connection must be below and approximately 90° to the flow line.
9. Gauge will be installed for testing but removed while drilling.
10. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.
11. Chokes must be adjustable and positive.
12. One side of casinghead may be bull plugged.

WHEN DRILLING -- USE:

Top preventor -- Drill pipe rams.
Bottom preventor -- Blinds rams.

WHEN RUNNING CASING -- USE:

Top preventor -- Casing rams.
Bottom preventor -- Blind rams.

BLOWOUT PREVENTION POLICY

1. Light Plant will be located a mimimum of 125' from the well.

2. Rig will be equipped with a vapor proof lighting system. A switch panel will be located on rig floor to provide sufficient circuits for maintaining light on rig floor and under the substructure during blowout. All other lights will be out in the event of a blowout.

3. Engine exhausts will be horizontal and equipped with a remote operated spray system.

4. Pump and drawworks engines will have a remote ignition 'kill' system readily accessible to the driller.

5. All vehicles will be parked at least 125 feet from the well unless supplying rig material.

6. The Contract Pusher will instruct each man of his duties in case of an emergency and inform Marathon of these duties.

7. The Contract Pusher on each rig will have blowout preventer and fire drills with each crew once each week and note same in Marathon Log Book.

8. The Contract Pusher will instruct derrickman in the use of the Geronimo.

9. Gate type blowout preventers and choke manifold valves will be operated on each trip out for a new bit and so noted in the log book. All valves will be equipped with handles.

10. Blowout preventers will stay in place and be operable until casing is cemented and packing and slips are in place.

11. The choke line will be cleaned from the BOP's to the pit immediately under surface and once a week thereafter.

12. Manual handles must be on blowout preventers.

13. The pipe from the blowout preventer to the choke manifold will be kept free of all sharp bends.

14. The choke manifold will be out from under the rig floor and braced.

15. Choke lines will run straight from rig and be tied down.

16. The choke lines will be run to the reserve pit and/or mud tank as indicated on the attached Exhibit.

THIRTEEN POINT SURFACE USE PLAN
Tin Cup Mesa #5-26

1. Existing Roads:

   a. Location of proposed well in relation to town or other reference point: See vicinity map Exhibit 'A' and the well location in relation to Hatch Trading Post, Utah.

   b. Proposed route to location: County roads, see vicinity map Exhibit 'A'.

   c. Plans for improvement and/or maintenance of existing roads: The roads will be maintained in as good or better condition than they now exist.

   d. An encroachment permit will be obtained from the San Juan County Road Dept., (801) 587-2231, ext. 43.

   e. Other: Permit is presently being obtained.

2. Planned Access Roads:

   a. The maximum total disturbed width will be 30 feet for 1/4 miles.

   b. Maximum grade: N/A

   c. Turnouts: N/A

   d. Location (centerline): Flagged during onsite.

   e. Drainage: One 18" culvert will be placed where the new access road will leave the Tin Cup Mesa #4-26 location.

   f. Surface Materials: If access is utilized during wet winter weather, road surfacing may be required to prevent road maintenance problems.

   g. Other: Pit run will be used for road surfacing.

   Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

   The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

   The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

3. Location of Existing Wells:

See Exhibit 'C'.

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be Sandstone.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity and contain 1-1/2 times the storage capacity of the largest tank within the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location of Type of Water Supply:

All water needed for drilling purposes will be obtained from: A nearby artesian well, refer to Exhibit 'C' for water haul route.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, (801) 637-1303 and by receiving permission from the land owner or surface management agency to use the land containing the water source.

6. Source of Construction Material:

Pad Construction material will be obtained from: Native material

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. Methods of Handling Waste Disposal:

The reserve pit will not be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut. However, if determined by the dirt contractor that the pit needs line, it will be line with bentonite.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A trash pit or cage will be constructed near the mud tanks and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by notifying the San Juan County Sheriff at (801) 587-2237.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

8. Ancillary Facilities:

Camp facilities will not be required.

9. Well Site Layout:

The reserve pit will be located: See Exhibit 'J'

The top 2-3 inches of soil material will be removed from the location and stockpiled separate from the trees on the North and Southeast sides. Topsoil along the access will be reserved in place.

Access to the well pad will be from: A new access road from the Tin Cup Mesa #4-26 location leading to the new well site. The new well site will be entered from the South.

10. Reclamation:

a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.

b. The operator/holder or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801) 587-2141, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.

e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

f. Water bars will be built as follows to control erosion.

Grade	Spacing
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

_____ lbs/acre Indian ricegrass (Oryzopsis hymenoides)
_____ lbs/acre Galleta (Hilaria jamesii)
4 lbs/acre crested wheatgrass (Agropyron desertorum)
_____ lbs/acre Western wheatgrass (Agropyron smithii)
_____ lbs/acre Alkali sacaton (Sporobolus airodies)
_____ lbs/acre Sand dropseed (Sporobolus cryptandrus)
3 lbs/acre Fourwing saltbush (Atriplex canenscens)
_____ lbs/acre Shadscale (Atriplex confertifolia)
_____ lbs/acre Green ephedra (Ephedra viridis)
_____ lbs/acre Cliffrose (Cowania mexicana)
_____ lbs/acre Desert bitterbrush (Purshia gladulosa)

_____ lbs/acre Winterfat (Eurotia lanata)
_____ lbs/acre Globemallow (Sphaeralcea ambigua)
_____ lbs/acre Wild sunflower (Helianthus annuus)
1/2 lbs/acre Yellow Sweet Clover

h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

i. The reserve pit and the portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed see mixture.

11. Surface Ownership: BLM

Mineral Ownership: Federal

12. Other Information: The proposed injection line will parallel the new access road to Tin Cup Mesa #4-26 and then parallel the existing injection line right-of-way to the Tin Cup Mesa Gas Facility (Surface Disturbance will be an additional 30' width).

There will be no change from the proposed drilling and/or work-over program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed and approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in the spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will be done by a BLM approved archeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

Your contact with the District Office is: Steve Jones
Office Phone: (801) 259-6111, Address: P. O. Box 970, Moab, UT 84532

Resource Area Manager's address and contacts:
Address: P. O. Box 7, Monticello, UT 84532

Your contact is: Richard McClure
Office Phone: (801) 587-2141

13. Lessee's or Operator's Representation and Certification

Representative

Name: Fred Schneider
Address: P. O. Box 2690, Cody, Wyoming 82414
Phone No.: (307) 587-4961

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Marathon Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

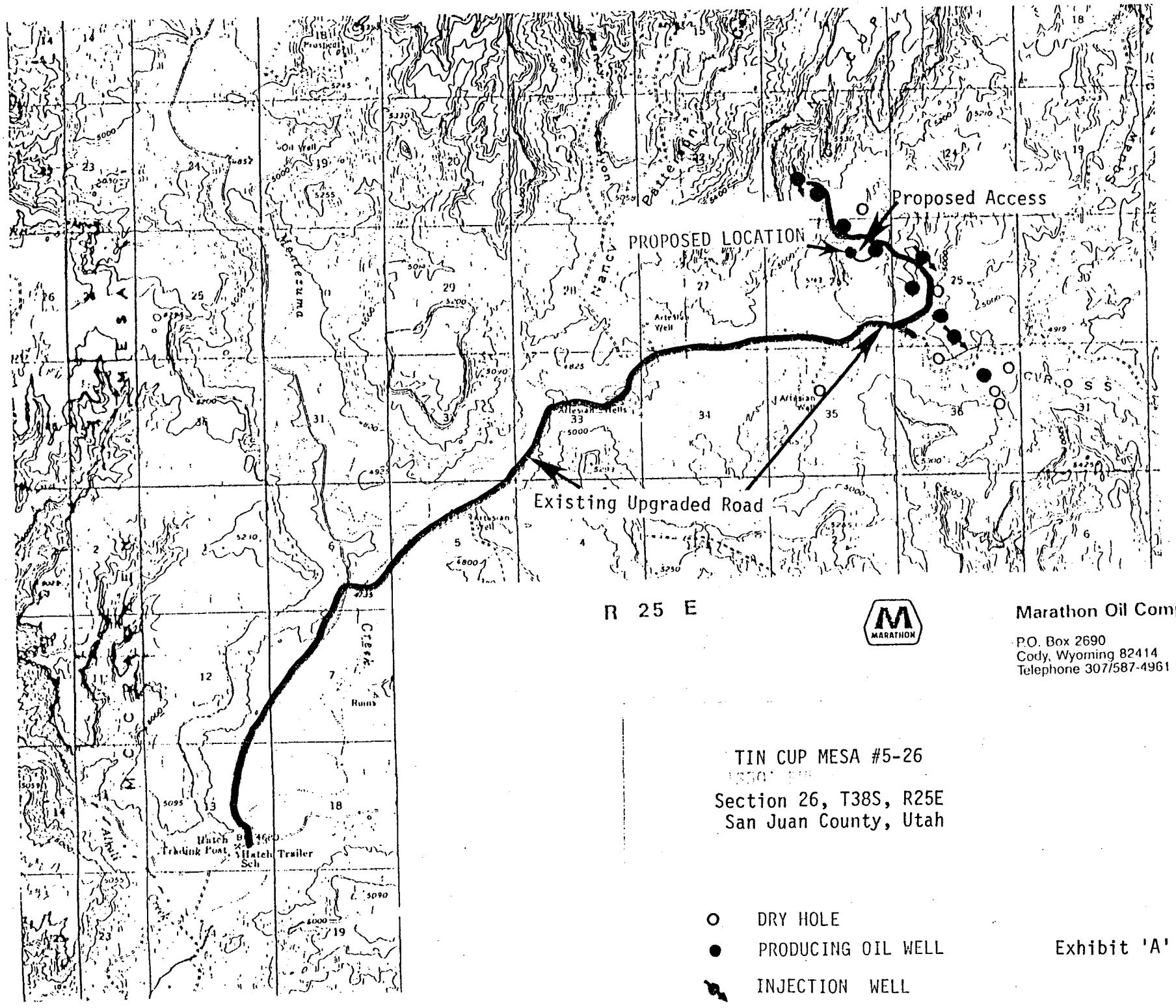
November 6, 1987 — Date
R P Mealon — Regulatory Coordinator — Name and Title

ON-SITE

DATE: September 28, 1987

PARTICIPANTS:

Jim Perkins & Lou Jobe - Surveyors	Bob Coleman - Marathon
Patrick Harden - Archeologist	Joe Icenogle - Marathon
Howard Hughes - Dirt Contractor	Marvin Blakesley - Marathon
Richard McClure - BLM	Frank Krugh - Marathon
Jim VanGilder - Marathon	Jim Barto - Marathon



Marathon Oil Company

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

TIN CUP MESA #5-26

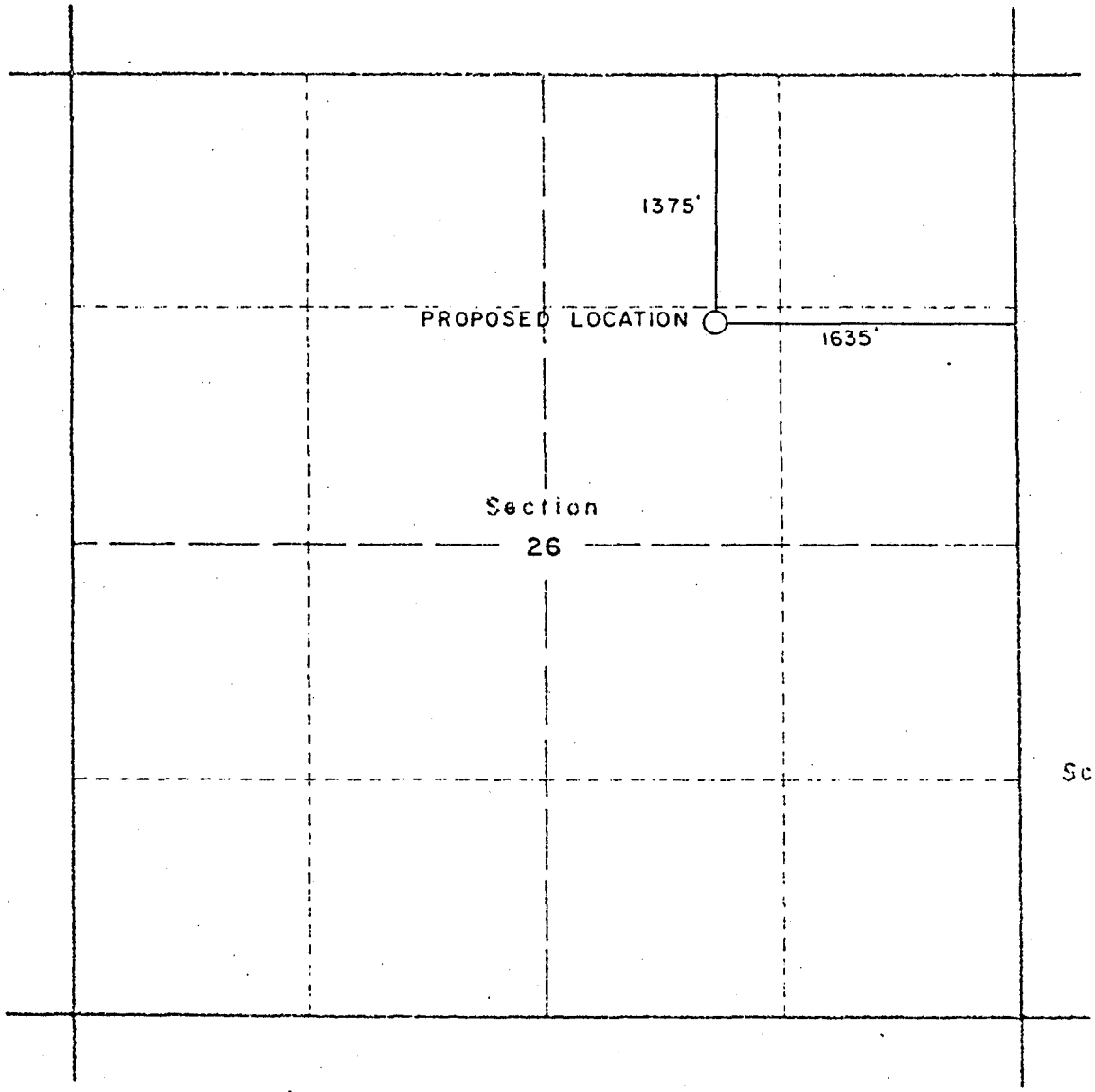
Section 26, T38S, R25E
San Juan County, Utah

O DRY HOLE

● PRODUCING OIL WELL

INJECTION WELL

Exhibit 'A'



Scale: 1" = 1000'

WELL LOCATION: MARATHON OIL CO. - TIN CUP MESA No. 5-26

Located 1375 feet South of the North line and 1635 feet West of the East line of Section 26
Township 38 South Range 25 East Salt Lake Meridian

Existing ground elevation determined at 5101 feet based on Well No. 3-26,

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief

Frederick H. Reed

FREDERICK H. REED
Registered Land Surveyor

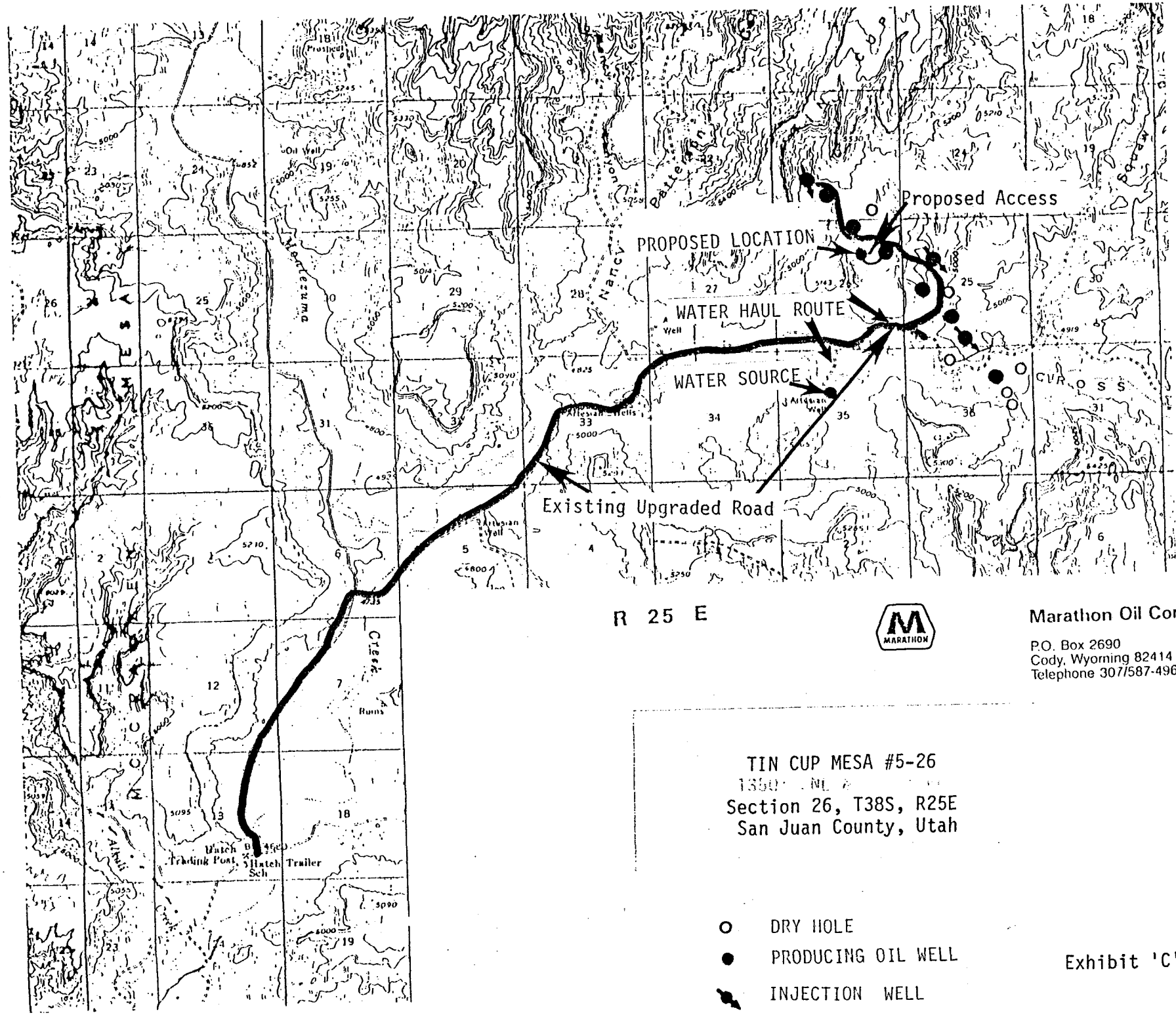
Exhibit 'B'

MARATHON OIL CO.
Cody, Wyoming

WELL LOCATION PLAT
Tin Cup Mesa No. 5-26
Sec. 26, T38S, R25 E
San Juan County, Utah

CLARK-REED & ASSOC
Surveyors, Colorado

DATE: Sept. 30, 1987
FILE NO 87019



Marathon Oil Company

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

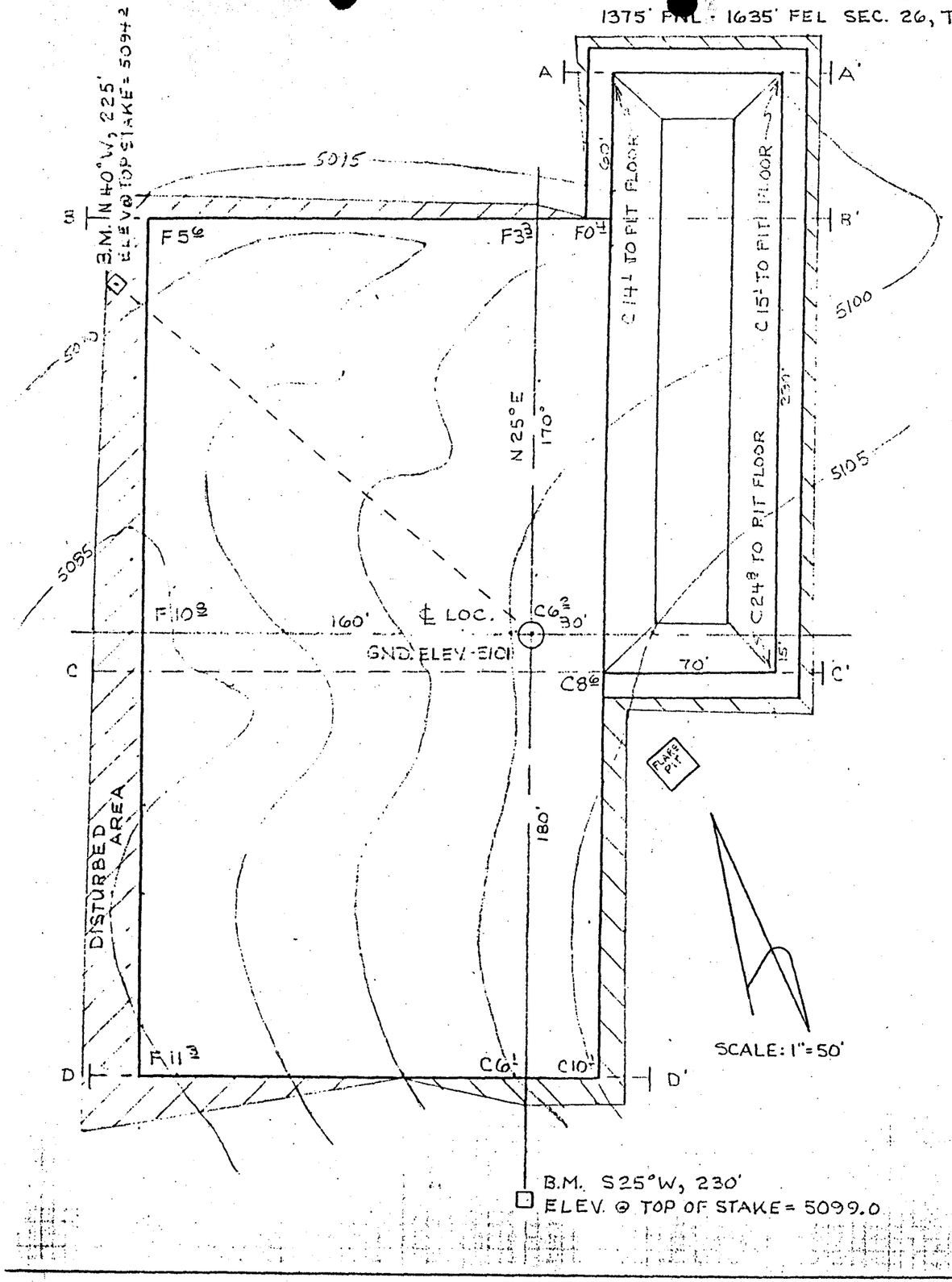
TIN CUP MESA #5-26
1350' FNL & [illegible]
Section 26, T38S, R25E
San Juan County, Utah

O DRY HOLE
● PRODUCING OIL WELL
INJECTION WELL

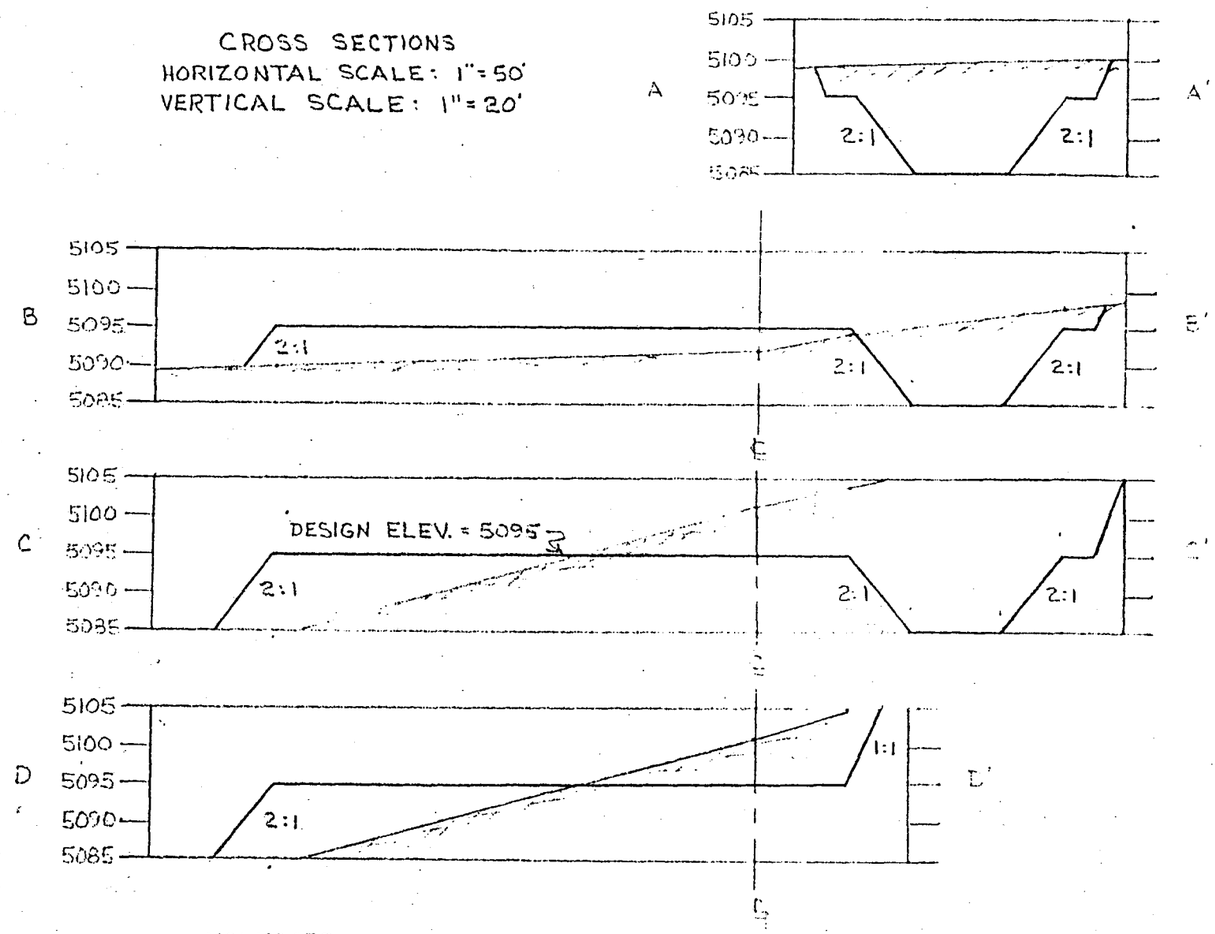
Exhibit 'C'

MARATHON OIL CO. - TIN CUP MESA No. 5-26

1375' FNL - 1635' FEL SEC. 26, T38S, R25E, S.L.M., SAN JUAN COUNTY, UTAH



CROSS SECTIONS
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 20'



VOLUMES

TOTAL CUT = 12,940 cu. yds. TOTAL FILL = 8,889 cu. yds.
TOP SOIL = 620 cu. yds. WASTE = 3,431 cu. yds.

RESERVE PIT CAPACITY = 24,043 BARRELS

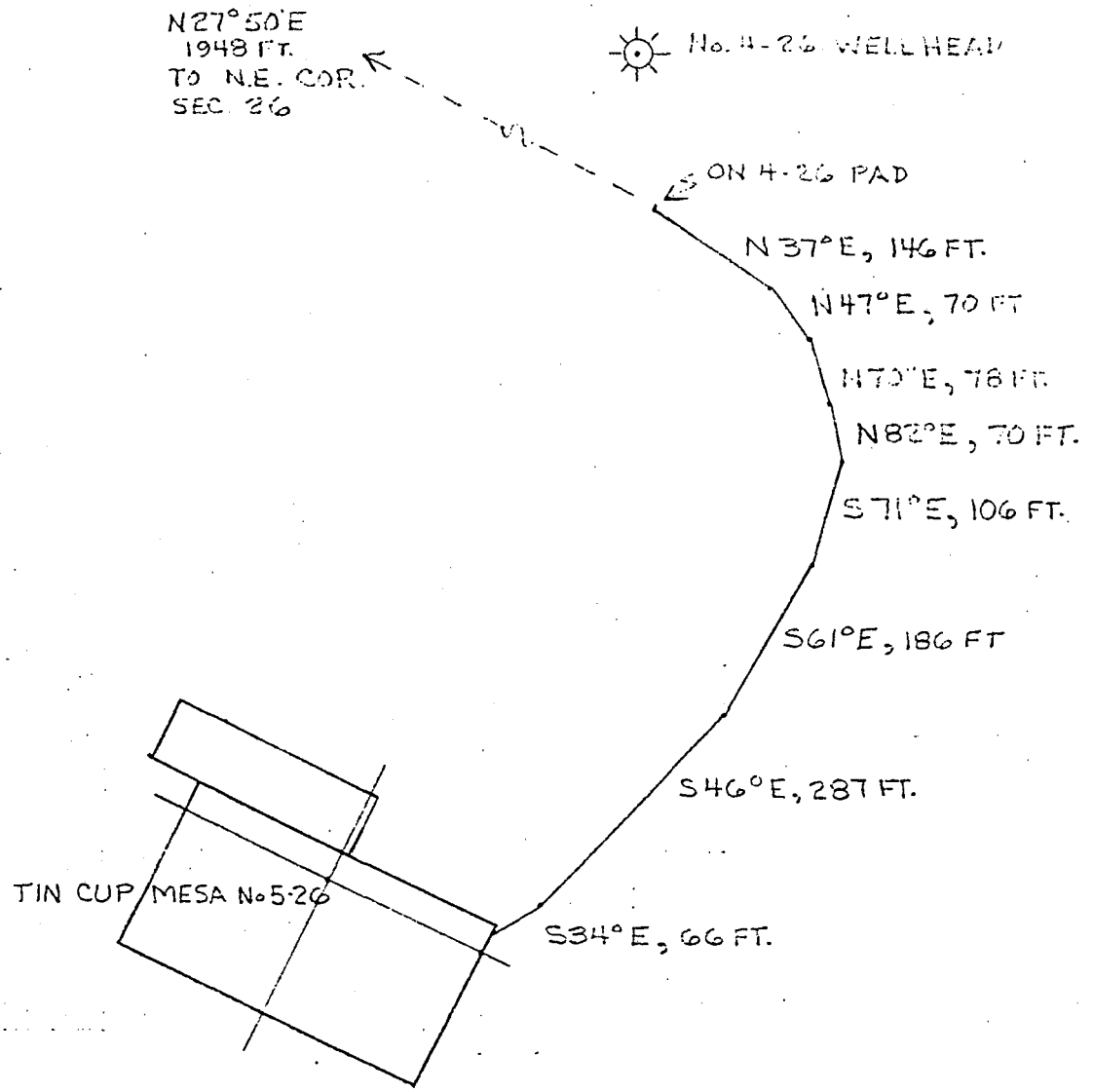
Marathon Oil Co.
Cody, Wyoming

Exhibit 'D'

Well Site Plan
Tin Cup Mesa No. 5-26
Sec. 26, T38S, R25E, S.L.M.
San Juan County, Utah

Clark-Reed & Assoc. Sept. 30, '87
Durango, Colorado #87019

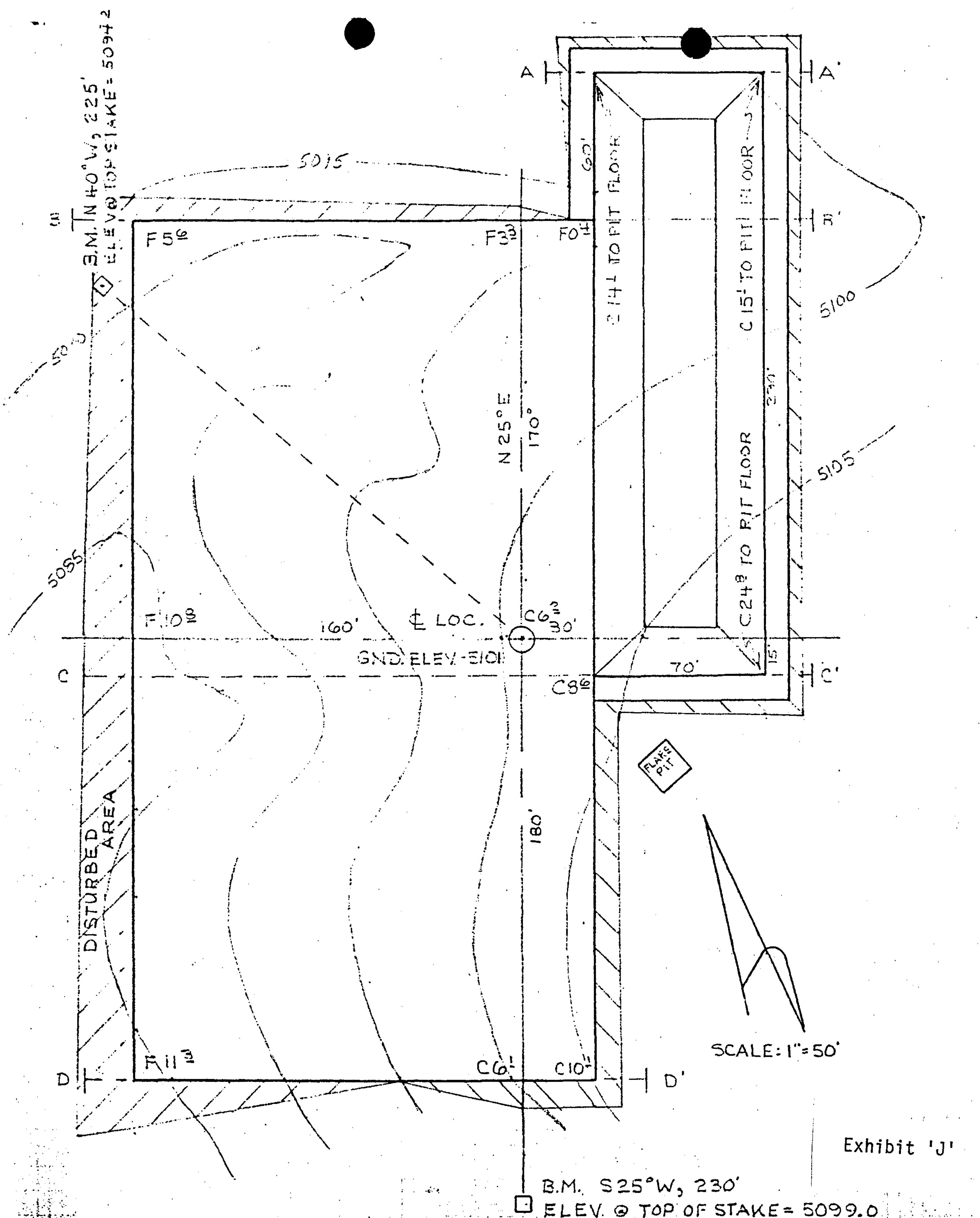
TIN CUP MESA No. 5-26 ACCESS RD.



SCALE: 1" = 200'

Marathon Oil Co. Cody, Wyoming
Tin Cup Mesa No. 5-26 Access Road
Clark-Reed & Assoc. #87019

Exhibit 'E'



B.M. N 40°W, 225'
ELEV @ TOP STAKE = 5094.2
5015
5100
5105
5095
5085
A
A'
B'
C
C'
D
D'
F 5⁶
F3³
F0⁴
F10⁸
F11³
C6¹
C10⁴
C8⁶
C6³
30'
60'
15'
70'
230'
C 15' TO PIT FLOOR
C 24⁸ TO PIT FLOOR
N 25° E
170'
160'
180'
℄ LOC.
GND. ELEV.-5101
FLARE PIT
DISTURBED AREA
SCALE: 1"=50'
B.M. S25°W, 230'
ELEV. @ TOP OF STAKE = 5099.0

Exhibit 'J'

SAN JUAN COUNTY ROAD DEPARTMENT

Application for Right-of-Way Encroachment Permit

DATE: October 7, 1987

TO: Road Supervisor
San Juan County Road Department

Application is hereby made by: (1) Marathon Oil Company

Address (2) P. O. Box 2690, Cody, Wyoming 82414
Telephone Number: (307) 587-4961 for permission to do the following:
(3) To utilize San Juan County roads and rights-of-ways during the construction, drilling and maintenance of our proposed Tin Cup Mesa #5-26 well

(4) Location: From Hatch Trading Post, Sec. 13, T39S, R24E, leading Northeast to the wellsite, Tin Cup Mesa #5-26 located in Sec. 26, T38S, R25E. (See Attached Map).

City --- County San Juan State Utah

or U. S. Highway No. 220 Milepost No. N/A

in accordance with the attached plan. (5)

(6) Construction will begin on or about November 7, 19 87

and will be completed on or before January 30, 19 88

If the proposed installation requires breaking of the pavement, give the following information:

a. Type of pavement: N/A

b. The opening to be made will be N/A feet long

by N/A feet wide and N/A feet deep.

c. A bond in the amount of $ N/A has been posted with

_____ Telephone No. _____,

to run of a term of three (3) years after completion of work to guarantee satisfactory performance.

(7) If this permit is granted, we agree to comply with all conditions, restriction, and regulations as contained in the "Regulations for the Control nad Protection of State Highway Rights-of-Way", approved by the Utah State Road Commission on October 8, 1962, and all revisions thereto or Regulations adopted by the San Juan County Commission.

(8) In approving this application and locations of utilities, and effort will be made to approve only locations that will not be effected in the event that San Juan County changes the roadway. But, in situations in which the utility has to be moved, this moving shall be done by the utility company or paid for by the company.

(9) For any and all applications requesting authority to Vibroseise, applicants shall:

a. Provide map showing where vibroseising will take place.

b. Agree to repair any damages or replace any property damaged.

c. Take full responsibility or proper flagging and traffic control.

d. Agree that Vibroseising done in the area of dirt roads shall done on the dirt road rather than in the bar ditch to minimize damage.

e. Provide a schedule of the planned work and estimated dates of completion.

f. Attach written permission form all adjacent fee-title owners.

g. The San Juan County Commission has authorized the San Juan County Road Superintendent (or his Assignees) to issue permits.

(10) San Juan County can only grant permission to the extent that the County has the aurhority to do so and the permission granted hereunder is limited to the interest of authority actually owned by San Juan County and no warranties of ownership or authority to grant permission is expressed or implied b·· the granting of this permit.

R P Meaba
BY:

Regulatory Coordinator
TITLE

To be filled in by Road Supervisor.

(1) Permit should be granted ✓

Permit should not be granted _____

(2) Additional requirements which should be imposed.

M R Hugentobler
ROAD SUPERVISOR

INSTRUCTIONS

(1) *Application for this permit should be made in duplicate by whoever will actually do the work whether it be the owner or a contractor.

(2) Mailing address of applicant.

(3) State fully and completely the type or installaion, type of construction, width, thickness, drainage data, etc., where applicable. If pole line, give the following information: number of poles, total length of line, type of wire, character of service, vertical clearance over roadway, and voltage of power line.

(4) If pipe line or buried cable, give the follwing information: Type of service, size and length of line, depth of trench, kind of pipe, (sewer, gas, oil, water supply, etc.) or conduit, and if pipe is to be driven or if pavement will be broken. All fluid lines requires encasement with suitable material. The size and length of encasement shall be satisfactory to the State Department of Transportation, San Juan County Road Supervisor or his agent.

(5) Give distance from some geographical point such as intersecting highways, city, or coporate limits. Give city, county, and state or U. S. route number.

(6) Attach two (2) copies of a plan showing proposed location of structures with reference ot pavement and right-of-way lines. If installation crosses the highway, show cross section of present roadway and proposed installation.

(7) Give anticipated dates for beginning and for completion of proposed installation.

Note: A fee of five (5) dollars will be charged for all Right-of-Way Encroachments Permits, except those obtained for pole lines, and buried cable lines. This Permit fee, where applicable, should be submitted with the application. The costs of inspection are included in the Right-of-Way Encroachment Permit fee, except for pole lines, pipe lines, and buried cable lines which shall be billed for the inspection.

Form 97 2M 10-70 TEMPORARY Application No. _____

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is Marathon Oil Company
3. The Post Office address of the applicant is P. O. Box 2690, Cody, Wyoming 82414
4. The quantity of water to be appropriated _____ second-feet and/or 3.5 acre-feet
5. The water is to be used for Oil Well Drilling (Major Purpose) from November 1, 1987 (Month) (Day) to November 1, 1988 (Month) (Day)

   other use period _____ (Minor Purpose) from _____ (Month) (Day) to _____ (Month) (Day)

   and stored each year (if stored) from _____ (Month) (Day) to _____ (Month) (Day)
6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)
7. The direct source of supply is* An artesian well, Sec. 35, T38S, R25E (Name of stream or other source)

   which is tributary to _____, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* SE¼ NW¼ Sec. 35, T38S, R25E

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of pumping water from the artesian well.
10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____ area inundated in acres _____ legal subdivision of area inundated _____
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    _____ Total _____ Acres
12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes _____ No X

    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. _____
15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____
16. If application is for stockwatering purposes, number and kind of stock watered _____
17. If application is for domestic purposes, number of persons _____, or families _____
18. If application is for municipal purposes, name of municipality _____
19. If application is for other uses, include general description of proposed uses Oil Well Drilling
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE¼ NE¼ Sec. 26, T38S, R25E proposed wellsite for Tin Cup Mesa #5-26. (See attached map for source and haul route)
21. The use of water as set forth in this application will consume 3.5 second-feet and/or acre-feet of water and 0 second feet and/or acre feet will be returned to the natural stream or source at a point described as follows: _____

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Paragraph #7 - Underground Water (artesian well)

Paragraph #8 - San Juan County, SE NW of Sec 35, T38S, R25E, S.1975 ft. and W.565 ft. from N¼ Corner Sec. 35, T38W, R25E SLM&B.

Paragraph #12 - Surface and mineral rights owned by U. S. Government

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

R P Nolan Regulatory Coordinator

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

ARCHEOLOGICAL SURVEY OF MARATHON OIL COMPANY'S TIN CUP MESA 5-26 WELL, ACCESS ROAD, & PIPELINE, SAN JUAN COUNTY, UTAH

LAC REPORT 87111

by
Patrick L. Harden

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.
P.O. BOX 783
DOLORES, COLORADO 81323
(303) 882-4933

OCTOBER 13, 1987

FEDERAL ANTIQUITIES PERMIT
85UT57626
UTAH STATE PERMIT
U87-LA-587b

Prepared For:
Marathon Oil Company
P.O. Box 2690
Cody, Wyoming 82414

ABSTRACT

The archeological survey of Marathon Oil Company's Tin Cup Mesa 5-26 well pad, ca. 1200 feet of access road, and a ca. 1500' pipeline route was conducted by personnel of La Plata Archeological Consultants, Inc. on September 28, 1987. The project is located on lands administered by the Bureau of Land Management in San Juan County, Utah. An area 660 X 660 feet surrounding the well center stake and a 100' wide corridor along the access road and pipeline route were inventoried for cultural resources. One archeological site was found. This site is outside of the project area per se and in no danger of being disturbed. Archeological clearance for the project is recommended.

INTRODUCTION

On September 28, 1987 the archeological survey of Marathon Oil Company's Tin Cup Mesa 5-26 well pad, a ca. 1200' foot long access route, and a 1500' long pipeline route was conducted by Patrick Harden of La Plata Archeological Consultants, Inc. The survey was requested by Mr. Frank Krugh of Marathon. The proposed project consists of the construction of a single well pad ca. 275 X 325' in size, a ca. 1200' access road, and a pipeline ca. 1500' in length. The pipeline will parallel the access road to the 5-26 well, then follow other Marathon pipelines to the tank battery. The total length of the pipeline will be ca. 2700'. The access road will connect the 5-26 well to another Marathon well in the SE 1/4 of the NE 1/4 of section 26. The project is located in San Juan County, Utah on lands administered by the Bureau of Land Mangement - San

Juan Resource Area. The well is in the NE 1/4 of section 26, T38S, R25E. The pipeline is in the NE 1/4 of section 26, and terminates at Marathon's tank battery in the NW 1/4 of section 25. The area is included on the Hatch Trading Post 7.5' series topographic map (1985).

PHYSIOGRAPHY AND ENVIRONMENT

The project is located near the southeast end of Tin Cup Mesa in undulating terrain. The well is located primarily on a moderate ridge slope, while the access road and pipeline are mostly in undulating terrain.

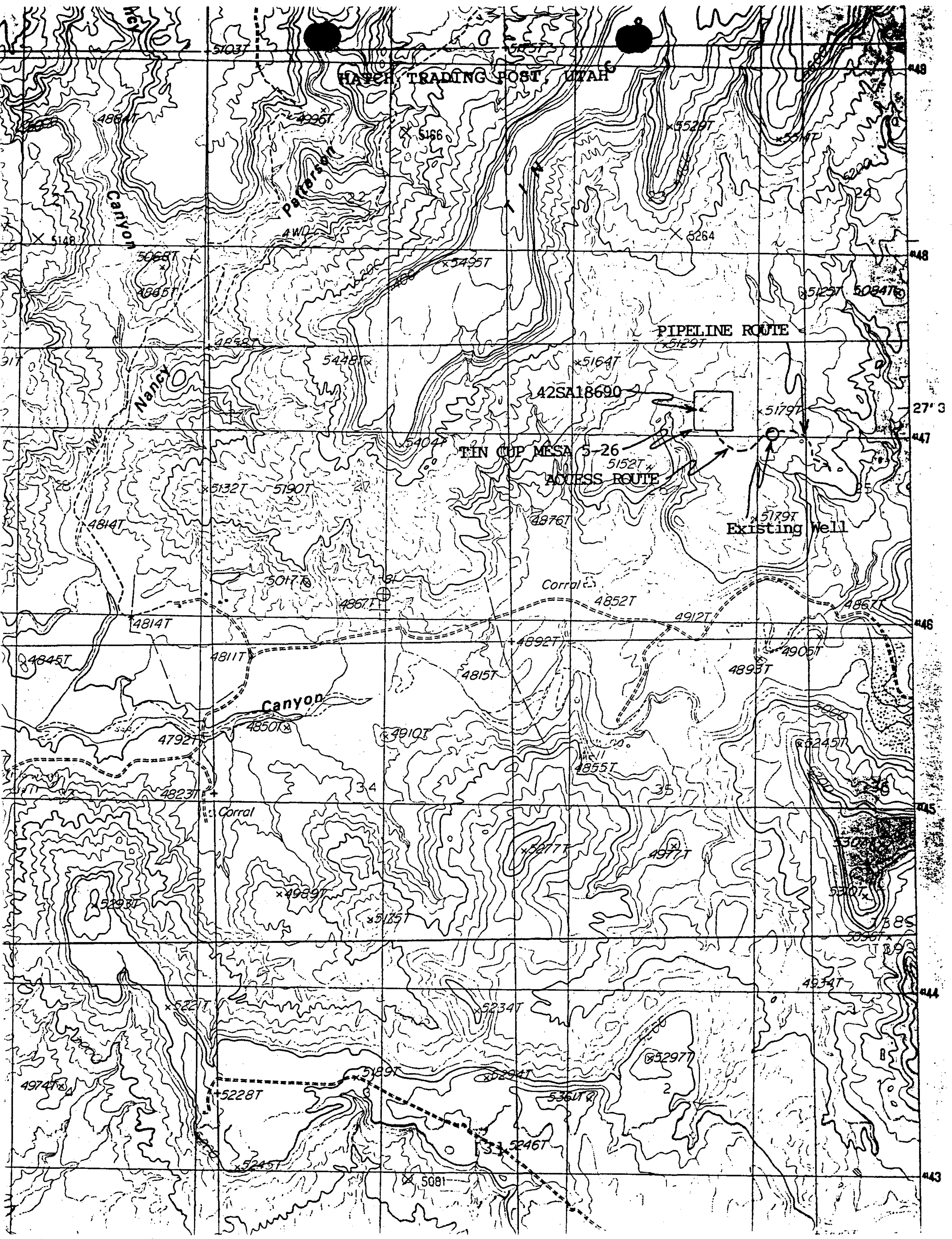
Sediments consist of aeolian sand and residual cobble to small boulder sized silicified sandstone over most of the area. Sandstone bedrock is exposed in a few places along the pipeline route.

The vegetation consists primarily of saltbush, snakeweed, cheat grass, and some greasewood. A sparse scatter of juniper are present along the west side of the well pad and the pipeline.

SURVEY PROCEDURES

Prior to the field investigations a file search was requested through the Division of State History, and another search conducted at the BLM office in Monticello. The files at the LAC office were also consulted. The searches indicated that no archeological sites had been recorded in the project area per se.

On-the-ground survey consisted of walking a series of transects spaced 15 meters apart across an area 660 X 660 feet (ten acres) surrounding the well center stake, and a single sinuous


HATCH TRADING POST, UTAH
PIPELINE ROUTE
42SA18690
TIN CUP MESA 5-26
ACCESS ROUTE
Existing Well
Patterson
Canyon
Nancy
Canyon
Corral
Corral

transect along the access route and pipeline, effectively inventoring a 100' wide corridor.The one site found was documented on a standard IMACS site form.

SURVEY RESULTS

One archeological site was found during the survey. This site is located to the west of the well pad and below a sandstone cliff. A brief description of the newly recorded site is presented below. More detailed information is contained in the site form submitted to the BLM and Division of State History.

Site No.: 42SA

Description: This site consists of a dense concentration of burned rock and ash and lithic debitage in a 3 X 3m area. Much of the lithic material is secondary and primary flakes, and most are relatively large and blocky. It appears that the ash and burned rock may be the result of heat treating lithic materials, and that the site may have been a primary lithic reduction locale. The site is considered to be significant and potentially eligible for nomination to the National Register.

CONCLUSION

The archeological survey of Marathon Oil Company's Tin Cup Mesa 5-26 well pad, a ca. 1200' access road, and an additional ca. 1500' pipeline route was conducted by personnel of La Plata Archeological Consultants, Inc. on September 28, 1987. The project is located on lands administered by the Bureau of Land Management in San Juan County, Utah. An area 660 X 660' surrounding the well

center stake and a 100' wide corridor along the access and pipeline routes were surveyed. One archeological site was found. This site is located to the west of the well pad and should not receive any adverse effect from the project. Care should be taken, however, to insure that no back dirt from the pad construction is dumped onto the site. Provided that the site is strictly avoided archeological clearance for the project is recommended.

Re-Enter 8-29-88

121006

OPERATOR Marathon Oil Co. DATE 11-13-87

WELL NAME Ismay Exxon Mesa 5-26

SEC SW NE 26 T 39S R 25E COUNTY San Juan

43-037-31368	Fed.
API NUMBER	TYPE OF LEASE

CHECK OFF:

✓ PLAT	✓ BOND	✓ NEAREST WELL
✓ LEASE	✓ FIELD	✓ POTASH OR OIL SHALE

PROCESSING COMMENTS:

Unit Well — POD approved 12/1/87

Need water permit

APPROVAL LETTER:

SPACING: ✓ R615-2-3 Ismay Exxon Mesa UNIT ☐ R615-3-2

☐ CAUSE NO. & DATE ☐ R615-3-3

STIPULATIONS:

1- Water

0218T

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
Print your name, address, and ZIP Code in the space below.
- **Complete items 1, 2, 3, and 4 on the reverse.**
- **Attach to front of article if space permits, otherwise affix to back of article.**
- **Endorse article "Return Receipt Requested" adjacent to number.**

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

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Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☑ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Bureau of Land Management
P. O. Box 970
Moab, Utah 84325

4. Article Number
P001 717 633

Type of Service:
- ☐ Registered
- ☑ Certified
- ☐ Express Mail
- ☐ Insured
- ☐ COD

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X BLM by Greg Johnson

7. Date of Delivery
11/16/87

8. Addressee's Address (ONLY if requested and fee paid)

MOAB, UT
NOV
16
1987
USPO

PS Form 3811, Feb. 1986

DOMESTIC RETURN RECEIPT

P 001 717 633

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Bureau of Land Management	
Street and No. 970 P.O. Box ~~240~~	
P.O., State and ZIP Code VT 84325 ~~Cody, Wyoming 82414~~	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

★ U.S.G.P.O. 1984-446-014

PS Form 3800, Feb. 1982

Marathon 5-26 Dan J.

D STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

- t your name, address, and ZIP Code the space below.
- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 an

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☑ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Mobil Oil Corp.
P. O. Box 5444,
Denver, Colorado 80217

4. Article Number
P001 717 634

Type of Service:
☐ Registered ☑ Certified ☐ Express Mail
☐ Insured ☐ COD

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X TOURS

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

DENVER 1987

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

P 001 717 634

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mobil Oil Corp.	
Street and No. P.O. Box 5444	
P.O., State and ZIP Code Denver, Colorado 80217	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

★ U.S.G.P.O. 1984-446-014

PS Form 3800, Feb. 1982

Mahan Mon 5-26 Dan J.

:D STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
:t your name, address, and ZIP Code
:he space below.
:omplete items 1, 2, 3, and 4 on
:he reverse.
Attach to front of article if space permits, otherwise affix to back of article.
• Endorse article "Return Receipt Requested" adjacent to number.

SALT LAKE CITY, UT
PM
16 NOV
1987

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☑ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

Celsius Energy Company
P.O. Box 11070
Salt Lake City, Utah
84147

4. Article Number
P 001 717 635

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery
11-16-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

P 001 717 635

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Celsius Energy Co.	
Street and No. P.O. Box 11070	
P.O., State and ZIP Code SLC. UT. 84147	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

Markham 5-26 Dan J.

★ U.S.G.P.O. 1984-446-014

PS Form 3800, Feb. 1982

) STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS
your name, address, and ZIP Code in
e space below.
mplete items 1, 2, 3, and 4 on
e reverse.
ttach to front of article if space
permits, otherwise affix to back of
article.
• Endorse article "Return Receipt
Requested" adjacent to number.

HOUSTON, TX 770
10 NOV
1987
PM

PLEASE MAIL
EARLY FOR
CHRISTMAS

U.S.MAIL

PENALTY FOR PRIVATE
USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UTAH 84180-1203

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:

MCOR Oil & GAS Corp
5718 Westheimer
Houston, Texas 77057

4. Article Number

P 001 717 636

Type of Service:

☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee

X

6. Signature — Agent

X Marlatte

7. Date of Delivery

11/16/89

8. Addressee's Address *(ONLY if requested and fee paid)*

SAME

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

P 001 717 636

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to MCoR Oil & GAS Corp.	
Street and No. 5718 Westheimer	
P.O., State and ZIP Code Houston TEXAS 77057	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date	

★ U.S.G.P.O. 1984-446-014

PS Form 3800, Feb. 1982

Mailed 5-26 Dan J.

AFFIDAVIT OF PUBLICATION

Public notice

BEFORE THE DIVISON OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TIN CUP MESA # 5-26 WELL LOCATED IN SECTION 26, TOWNSHIP 38 SOUTH, RANGE 25 EAST, S.L.M., SAN JUAN COUNTY, UTAH, AS A CLASS II INJECTION WELL

* * *

CAUSE NO. UIC-103

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Marathon Oil Company, has requested administrative approval of the Tin Cup Mesa # 5-26 well, Section 26, Township 38 South, Range 25 East, S.L.M., San Juan County, Utah, as a Class II injection well.

The proposed operating data for the well is as follows:

INJECTION INTERVAL: Paradox Formation 5530' to 5555'

MAXIMUM SURFACE PRESSURE: 3600 psig

MAXIMUM INJECTION RATE: 4000 bwpd

Administrative approval of this application will be granted, unless objections are filed within fifteen days after publication of this Notice. Objections should be mailed to the Division of Oil, Gas and Mining, Attention: UIC Program Manager, 3 Triad Center, Suite 350, 355 West North Temple, Salt Lake City, Utah 84180-1203.

DATED this 12th day of November, 1987.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
MARJORIE L. ANDERSON
Administrative Assistant

Published in The San Juan Record November 18, 1987.

I, Joyce Martin, being duly sworn, depose and say that I am the publisher of **The San Juan Record**, a weekly newspaper of general circulation published at Monticello, Utah every Wednesday; that notice of application of Marathon Oil Company: Cause No. UIC-103

a copy of which is hereunto attatched, was published in the regular and entire issue of each number of said newspaper for a period of one issues, the first publication having been made on November 18, 1987. ~~and the~~

last publication having been made on _____.

Joyce A. Martin
Publisher

Subscribed and sworn to before me this 18th day of November, A.D. 1987.

Ingrid K Adams
Notary Public residing at Monticello, Utah

My commission expires December 2, 1987

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145

FED. TAX I.D. # 87-0217663

Newspaper Agency Corporation
AGENT

The Salt Lake Tribune — MORNING & SUNDAY

DESERET NEWS — EVENING & SUNDAY

Affidavit of Publication

STATE OF UTAH. } ss.
County of Salt Lake }

I Roxlene Vigil Hereby certify that the attached advertisement of CAUSE NO. UIC-103BEFORE THE DIVISION OF OI for DIV.OF OIL, GAS & MIN was published by the NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE and DESERET NEWS, daily newspapers printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County in the State of Utah.

PUBLISHED ON NOV 18 1987

SUBSCRIBED AND SWORN TO BEFORE ME THIS 19TH DAY OF NOVEMBER 19 87

B. T. Davis
NOTARY PUBLIC

MARCH 1, 1988
COMMISSION EXPIRES

RESIDING IN SALT LAKE COUNTY

CAUSE NO. UIC-103
BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TIN CUP MESA #5-26 WELL LOCATED IN SECTION 26, TOWNSHIP 38 SOUTH, RANGE 25 EAST, S.L.M., SAN JUAN COUNTY, UTAH, AS A CLASS II INJECTION WELL.

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DATED THIS 12th day of November, 1987.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING
/s/ Marjorie L. Anderson
Administrative Assistant

S-43

DEC 01 1987
DIVISION OF
OIL, GAS & MINING

NOTARY PUBLIC
B. T. DAVIS
STATE OF UTAH

LEGAL ADVERTISING INVOICE

ACCOUNT NAME	AD NUMBER	TELEPHONE
F OIL, GAS & MIN	5-43	801-538-5340

SCHEDULE	MISC. CHARGES
C NOV 18 1987	.00

CAPTION	SIZE	TIMES	RATE	AD CHARGE
CAUSE NO. UIC-103BEFORE THE	54 LINES	1	1.22	65.88

DUE AND PAYABLE ON RECEIPT OF THIS INVOICE
FOR BILLING INFORMATION CALL 801-237-2796

TOTAL AMOUNT DUE 65.88

TO INSURE PROPER CREDIT

PLEASE RETURN THIS PORTION

WITH YOUR PAYMENT IN THE ENCLOSED ENVELOPE
MAKE CHECKS PAYBLE TO:
NEWSPAPER AGENCY CORPORATION
(PLEASE WRITE YOUR ACCOUNT NUMBER ON YOUR CHECK)

BILL TO:
DIV.OF OIL, GAS & MIN
355 W.NO.TEMPLE
3 TRIAD CENTER, #
SLC, UT 84180

ACCOUNT NUMBER	BILLING DATE
LE-5385340	11/19/87
AD NUMBER	PAY THIS AMOUNT
5-43	65.88

072355646300009000000000000013176 1834667574111101111111111112428?

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 4, 1987

Marathon Oil Company
Post Office Box 2690
Cody, Wyoming 82414

Gentlemen:

Re: Tin Cup Mesa #5-26 Well, Section 26, Township 38 South, Range 25 East, S.L.M., San Juan County, Utah

In accordance with Rule R615-5-3(3), Oil and Gas Conservation General Rules, administrative approval for the referenced Class II injection well is granted.

The following actions are necessary to fully comply with this approval:

1) Compliance with the UIC requirements for operation, maintenance and reporting for Class II injection wells.

2) Conformance with all conditions of the submitted application.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Best regards,

Dianne R. Nielson

Dianne R. Nielson
Director

mfp
7627U

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 7, 1987

Marathon Oil Company
P. O. Box 2690
Cody, Wyoming 82414

Gentlemen:

Re: Tin Cup Mesa 5-26 - SW NE Sec. 26, T. 38S, R. 25E
1375' FNL, 1635' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.

2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.

3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31368.

Sincerely,

John R. Baza
Petroleum Engineer

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

Form 3160-3
(November 1983)
(formerly 9-331C)

RECEIVED
DEC 10 1987
DIVISION OF OIL, GAS & MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-31928 Ord-AKAH

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 121705

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Water Injection SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Tin Cup Mesa

8. FARM OR LEASE NAME: Tin Cup Mesa

9. WELL NO.: 5-26

2. NAME OF OPERATOR: Marathon Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1375' FNL & 1635' FEL
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

43-037-31368

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 8.5 miles Northeast of Hatch Trading Post

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1555' to Unit Line / 905' Lease Line

16. NO. OF ACRES IN LEASE: 760

17. NO. OF ACRES ASSIGNED TO THIS WELL: N/A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: Approx. 988'

19. PROPOSED DEPTH: 5811'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' Ungraded GL

22. APPROX. DATE WORK WILL START*: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	2250'	865 sacks to Surface
7-7/8"	5-1/2"	15.5# & 17#	5811'	470 sacks to 2150'

Marathon Oil Company proposes to drill Tin Cup Mesa #5-26 as a water injection well. A 12-1/4" hole will be drilled to 2250' and 2250' of new 9-5/8", 36#, K-55 casing will be run and cemented to surface. A 7-7/8" hole will then be drilled to 5811', TD and 5-1/2" 15.5# and 17#, K-55 casing will be run from TD to surface and cemented to approximately 2150'. The Ismay formation well be perforated, treated as necessary and the well will be completed as a water injection well.

BLM-Orig & 3--cc: UDOGM-7, WRF, FMK, Reservoir, Drilling-2, WTR, RDT, Title & Contract (Houston)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED R P Meaden TITLE Regulatory Coordinator DATE November 6, 1987

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /s/ Kenneth V. Rhea TITLE DISTRICT MANAGER DATE DEC 04 1987

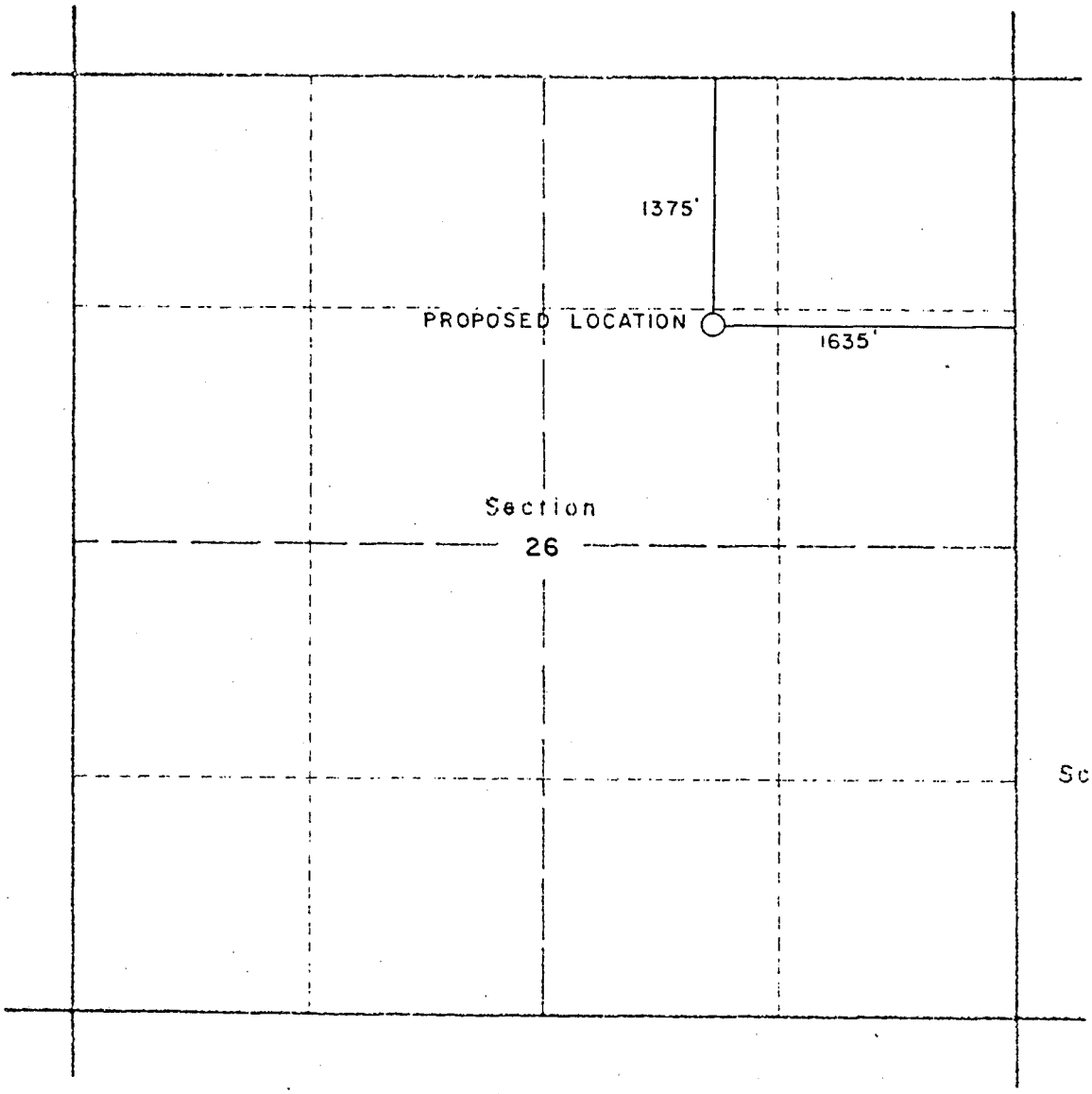
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Scale: 1" = 1000'

WELL LOCATION: MARATHON OIL CO. - TIN CUP MESA No. 5-26

Located 1375 feet South of the North line and 1635 feet West of the East line of Section 26
Township 38 South Range 25 East Salt Lake Meridian

Existing ground elevation determined at 5101 feet based on Well No. 3-26,

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief

Frederick H. Reed

FREDERICK H. REED
Registered Land Surveyor

Exhibit 'B'

MARATHON OIL CO.
Cody, Wyoming

WELL LOCATION PLAT
Tin Cup Mesa No. 5-26
Sec. 26, T38S, R25E
San Juan County, Utah

CLARK-REED & ASSOC
Surveyors, Consultants

DATE: Sept. 30, 1987
FILE NO 87019

Marathon Oil Company
Well No. Tin Cup Mesa 5-26
Sec. 26, T. 38 S., R. 25 E.
San Juan County, Utah
Lease U-31928

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

TABLE 1

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of BOPE and/or surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer	Office Phone:	(801) 259-6111
	Home Phone:	(801) 259-6038
Lynn Jackson, Chief, Branch of Fluid Minerals		
	Office Phone:	(801) 259-6111
	Home Phone:	(801) 259-7990
Paul Brown, I&E Coordinator	Office Phone:	(801) 259-6111
	Home Phone:	(801) 259-7018

24 hours advance notice is required for all abandonments.

Rocky Mountain Region
Production United States

Marathon Oil Company

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

December 16, 1987

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Gentlemen:

As stipulated in your approval letter granting Marathon Oil Company permission to drill its proposed Tin Cup Mesa #5-26 well, please find attached the Temporary Permit for Water Use issued by the State of Utah, Natural Resources, Water Rights.

If any further information is needed feel free to contact this office.

Sincerely,

MARATHON OIL COMPANY

R P Meabon

R. P. Meabon
Regulatory Coordinator
Rocky Mountain Region

RPM/FMK/rrm

Attachment

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.	U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1. OIL WELL ☐ GAS WELL ☐ OTHER Injector	7. UNIT AGREEMENT NAME: Tin Cup Mesa
2. NAME OF OPERATOR: Marathon Oil Company	8. FARM OR LEASE NAME: Tin Cup Mesa
3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414	9. WELL NO.: 5-26
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1375' FNL & 1635' FEL	10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E
14. PERMIT NO.: 43-037-31368	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' Ungraded GL
	12. COUNTY OR PARISH: San Juan
	13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) See Below			X
(Other)	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On March 3, 1988 notification was made to the Marathon Office that water trucks could no longer gain access to the permitted water source located in Section 35, T38S, R25E due to a beaver dam flooding the area. The State of Utah, Division of Natural Resources, Water Rights, was notified of the problem and Mr. John Solem granted verbal approval to change the point of diversion to Cross Creek (SW¼ Section 25, T38S, R25E). Mr. Bob Turri, BLM Monticello was notified of the problem and verbal approval was also granted to make the change.

BLM-Orig & 3--cc: UDOGM-2, WRF, FMK, WTR, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R P Mealer TITLE Regulatory Coordinator DATE March 3, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 9-2M 10-70 OCT 09 1987 WATER RIGHTS SALT LAKE

Application No. T-62957

09-1540

10/26/87 - Rec # 23387

APPLICATION TO APPROPRIATE WATER

STATE OF UTAH OCT 2 - 1987 DIVISION OF WATER RIGHTS

NOTE: The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒

2. The name of the applicant is Marathon Oil Company

3. The Post Office address of the applicant is P. O. Box 2690, Cody, Wyoming 82414

4. The quantity of water to be appropriated _____ second-feet and/or 3.5 acre-feet

5. The water is to be used for Oil Well Drilling (Major Purpose) from November 1, 1987 (Month) (Day) to November 1, 1988 (Month) (Day)

other use period _____ (Minor Purpose) from _____ (Month) (Day) to _____ (Month) (Day)

and stored each year (if stored) from _____ (Month) (Day) to _____ (Month) (Day)

6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)

7. The direct source of supply is* ~~An artesian well, Sec. 35, T38S, R25E~~ Cross Creek (Name of stream or other source)

which is tributary to _____, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* by phone with Frank Knight 3-3-88
~~SE¼ NW¼ Sec. 35, T38S, R25E~~ N. 325 E. 950' from SW Corner Sec. 25, T38S, R25E, SLB&M
~~North 3537 East 2102 from SW Corner Sec 35, T38S, R25E,~~
10-28-87 JBS SLB&M

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of pumping water from the artesian well

10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____ area inundated in acres _____ legal subdivision of area inundated _____

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

_____ Total _____ Acres

12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes _____ No X
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. _____

15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____

16. If application is for stockwatering purposes, number and kind of stock watered _____

17. If application is for domestic purposes, number of persons _____, or families _____

18. If application is for municipal purposes, name of municipality _____

19. If application is for other uses, include general description of proposed uses Oil Well Drilling

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE¼ NE¼ Sec. 26, T38S, R25E proposed wellsite for Tin Cup Mesa #5-26 (See attached map for source and haul route)

21. The use of water as set forth in this application will consume 3.5 second-feet and/or acre-feet of water and 0 second feet and/or acre feet will be returned to the natural stream or source at a point described as follows: _____

MICROFILMED

The following is set forth in order to define more clearly the purposes of the proposed application:

Paragraph #7 - Underground Water (artesian well)

Paragraph #8 - San Juan County, SE NW of Sec 35, T38S, R25E, S.1975 ft. and W.565 ft. from N¼ Corner Sec. 35, T38W, R25E SLM&B.

Paragraph #12 - Surface and mineral rights owned by U. S. Government

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

R P Mahler Regulatory Coordinator

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 09 - 1540 APPLICATION NO. 162937

1. October 23, 1987 Application received.

2. October 29, 1987 Application designated for APPROVAL by MP and KLJ.

3. Comments:

Conditions:
This application is hereby APPROVED, dated November 3, 1987, subject to prior rights and this application will expire on November 3, 1988.

Robert L. Morgan

Robert L. Morgan, P.E.
State Engineer

WATER PERMIT
09-1540
(T62937)

030744

DIVISION OF OIL, GAS AND MINING

krl.

SPUDDING INFORMATION API #43-037-31368

NAME OF COMPANY: MARATHON OIL COMPANY

WELL NAME: TIN CUP MESA #5-26

SECTION SW SE 26 TOWNSHIP 38S RANGE 25E COUNTY San Juan

DRILLING CONTRACTOR Coleman

RIG #4

SPUDDED: DATE 3-3-88

TIME 3:00 AM

HOW Rotary

DRILLING WILL COMMENCE 3-3-88

REPORTED BY Frank Krugh

TELEPHONE # 307-587-4961

DATE 3-3-88 SIGNED SBH

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
MAR 07 1988
DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Injector	5. LEASE DESIGNATION AND SERIAL NO. U-31928 Ofl.
2. NAME OF OPERATOR Marathon Oil Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME 030915
3. ADDRESS OF OPERATOR P. O. Box 2690, Cody, Wyoming 82414	7. UNIT AGREEMENT NAME Tin Cup Mesa
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1375' FNL & 1635' FEL	8. FARM OR LEASE NAME Tin Cup Mesa
	9. WELL NO. 5-26
	10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T38S, R25E
14. PERMIT NO. 43-037-31368	12. COUNTY OR PARISH San Juan / 13. STATE Utah
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5101' Ungraded GL	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) Spud ☒	
(Other) ☐		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On March 3, 1988 at 3:00 a.m. the above referenced well was spudded by Coleman Rig #4. This was reported to Mr. Dale Manchester, BLM Moab, and Ms. Sandy Heart of the State of Utah, Division of Oil, Gas and Mining on March 3, 1988 by Frank Krugh.

BLM-Orig & 3--cc: UDOGM-2, WRF, FMK, WTR, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED RP Mecham TITLE Regulatory Coordinator DATE March 3, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

BEST COPY
available

COMPANY : MARATHON OIL COMPANY
DATE : 23-MAR-8
SERIAL NO: EWC141
LATITUDE : 37.4
WELL NAME: TIN CUP MESA 5-2E
LOCATION : SAN JUAN COUNTY, UTAH
DISTRICT : CASPER
SURVEYOR : D COY
CO REP :RAY ROSENTHAL
DEPTH REF: KB
REF ELEV : GROUND
CASING ID: 4 1/2 INCH DP
RUN GEAR : E,2,SS
COMMENT 1:
COMMENT 2:
COMMENT 3:
-
-

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

BEST COPY available

COMPANY : MARATHON OIL COMPANY
DATE : 23-MAR-8
SERIAL NO: EW0241

COMPUTATION TIME 19:44:13 DATE 23-MAR-88 PAGE NO. 1

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION DEG	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
0	0 0	0	.00	.00	.00	.00
50	0 19	N 7 E	50.00	.14 N	.02 E	.64
100	0 10	N 37 E	100.00	.34 N	.10 E	.38
150	0 18	N 20 E	150.00	.52 N	.20 E	.30
200	0 21	N 23 E	200.00	.79 N	.30 E	.09
250	0 20	N 6 W	250.00	1.08 N	.35 E	.35
300	0 21	N 28 W	300.00	1.38 N	.25 E	.26
350	0 23	N 32 W	350.00	1.66 N	.09 E	.10
400	0 22	N 48 W	399.99	1.91 N	.12 W	.22
450	0 19	N 64 W	449.99	2.08 N	.36 W	.22
500	0 11	S 73 W	499.99	2.10 N	.60 W	.45
550	0 7	S 2 E	549.99	1.99 N	.68 W	.41
600	0 6	S 78 E	599.99	1.92 N	.62 W	.28
650	0 6	N 69 E	649.99	1.93 N	.53 W	.12
700	0 0	N 32 E	699.99	1.94 N	.48 W	.20
750	0 3	S 77 W	749.99	1.94 N	.51 W	.10
800	0 7	S 55 W	799.99	1.91 N	.58 W	.16
850	0 13	S 23 W	849.99	1.79 N	.68 W	.26
900	0 22	S 19 W	899.99	1.55 N	.77 W	.29
950	0 25	S 3 E	949.99	1.21 N	.82 W	.32
1000	0 22	S 35 E	999.99	.88 N	.70 W	.45
1050	0 17	S 24 E	1049.99	.62 N	.56 W	.22
1100	0 20	S 9 W	1099.99	.35 N	.52 W	.36
1150	0 29	S 7 W	1149.99	.01 S	.57 W	.32
1200	0 34	S 1 E	1199.98	.48 S	.59 W	.21
1250	0 23	S 1 W	1249.98	.90 S	.59 W	.39
1300	0 22	S 23 W	1299.98	1.22 S	.66 W	.29
1350	0 31	S 31 W	1349.98	1.57 S	.84 W	.31
1400	0 27	S 23 W	1399.98	1.95 S	1.03 W	.19
1450	0 26	S 16 W	1449.98	2.31 S	1.16 W	.11

COMPANY : MARATHON OIL COMPANY
DATE : 23-MAR-8
SERIAL NO: EW0241

COMPUTATION PAGE NO. 2
TIME DATE
19:44:13 23-MAR-88

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION DEG	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
1500	0 27	S 41 W	1499.97	2.66 S	1.35 W	.39
1550	0 36	S 36 W	1549.97	3.02 S	1.64 W	.32
1600	0 36	S 1 E	1599.97	3.51 S	1.79 W	.77
1650	0 18	S 9 W	1649.97	3.91 S	1.82 W	.60
1700	0 28	S 8 W	1699.97	4.24 S	1.87 W	.31
1750	0 25	S 4 E	1749.96	4.63 S	1.89 W	.21
1800	0 11	S 56 W	1799.96	4.86 S	2.00 W	.74
1850	0 20	S 40 W	1849.96	5.02 S	2.18 W	.32
1900	0 18	S 6 W	1899.96	5.28 S	2.28 W	.39
1950	0 22	S 38 W	1949.96	5.55 S	2.39 W	.40
2000	0 29	S 33 W	1999.96	5.85 S	2.61 W	.23
2050	0 20	S 36 W	2049.96	6.15 S	2.81 W	.27
2100	0 29	S 69 W	2099.96	6.37 S	3.10 W	.56
2150	0 20	N 81 W	2149.96	6.41 S	3.46 W	.51
2200	0 39	N 88 W	2199.95	6.37 S	3.90 W	.63
2250	0 37	S 89 W	2249.95	6.36 S	4.46 W	.11
2300	0 29	N 52 W	2299.95	6.21 S	4.91 W	.78
2350	0 49	S 81 W	2349.95	6.07 S	5.45 W	1.22
2400	0 30	N 85 W	2399.94	6.09 S	6.04 W	.71
2450	0 38	N 60 W	2449.94	5.94 S	6.51 W	.56
2500	0 41	N 35 W	2499.94	5.54 S	6.94 W	.59
2550	0 27	N 45 W	2549.93	5.15 S	7.26 W	.50
2600	0 32	N 35 W	2599.93	4.82 S	7.54 W	.25
2650	0 39	N 35 W	2649.93	4.38 S	7.85 W	.23
2700	0 31	N 19 W	2699.93	3.92 S	8.08 W	.44
2750	0 30	N 25 W	2749.92	3.51 S	8.25 W	.12
2800	0 41	N 18 W	2799.92	3.02 S	8.44 W	.38
2850	0 38	N 16 W	2849.92	2.47 S	8.61 W	.10
2900	0 28	N 8 E	2899.92	1.99 S	8.54 W	.56
2950	0 43	N 12 E	2949.91	1.47 S	8.55 W	.51

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION DEG	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY D6/100FT
3000	0 30	N 24 E	2999.91	.96 S	8.39 W	.52
3050	0 33	N 22 E	3049.91	.53 S	8.21 W	.13
3100	0 26	N 22 E	3099.91	.12 S	8.04 W	.23
3150	0 36	N 7 E	3149.90	.32 N	7.92 W	.43
3200	0 40	N 14 E	3199.90	.87 N	7.82 W	.20
3250	0 30	N 25 E	3249.90	1.35 N	7.65 W	.41
3300	0 28	N 32 E	3299.90	1.73 N	7.44 W	.14
3350	0 22	N 29 E	3349.89	2.04 N	7.26 W	.20
3400	0 23	N 15 E	3399.89	2.36 N	7.13 W	.19
3450	0 35	N 14 E	3449.89	2.78 N	7.02 W	.40
3500	0 22	N 3 E	3499.89	3.20 N	6.96 W	.49
3550	0 29	N 29 E	3549.89	3.56 N	6.86 W	.47
3600	0 30	N 14 E	3599.89	3.96 N	6.70 W	.27
3650	0 33	N 4 E	3649.88	4.42 N	6.62 W	.22
3700	0 37	N 5 E	3699.88	4.94 N	6.58 W	.13
3750	0 37	N 0 W	3749.88	5.48 N	6.55 W	.12
3800	0 40	N 6 E	3799.88	6.04 N	6.52 W	.19
3850	0 35	N 11 W	3849.87	6.60 N	6.54 W	.41
3900	0 42	N 9 W	3899.87	7.15 N	6.64 W	.22
3950	0 39	N 7 W	3949.86	7.74 N	6.72 W	.09
4000	0 33	N 0 W	3999.86	8.27 N	6.75 W	.26
4050	0 43	N 1 W	4049.86	8.82 N	6.76 W	.34
4100	0 39	N 0 E	4099.86	9.42 N	6.77 W	.14
4150	0 30	N 2 W	4149.85	9.93 N	6.78 W	.28
4200	0 32	N 8 E	4199.85	10.39 N	6.75 W	.18
4250	0 32	N 4 E	4249.85	10.86 N	6.71 W	.07
4300	0 44	N 7 W	4299.85	11.42 N	6.72 W	.47
4350	0 39	N 8 W	4349.84	12.03 N	6.80 W	.20
4400	0 47	N 30 W	4399.84	12.62 N	7.00 W	.63
4450	0 43	N 17 W	4449.83	13.23 N	7.27 W	.37

FINAL CLOSURE - DIRECTION: N 28 47 W
DISTANCE: 15.10 FEET

COMPANY : MARATHON OIL COMPANY
DATE : 23-MAR-8
SERIAL NO: EW0241

FINAL CLOSURE - DIRECTION: N 28 47 W
DISTANCE: 15.10 FEET.

FINAL STATION - TVD: 4449.83
RECTANGULAR COORDINATES: 13.23 N 7.27 W

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-31928 Drl.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 030907

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
MAR 07 1988
DIVISION OF OIL GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Injector

7. UNIT AGREEMENT NAME: Tin Cup Mesa

2. NAME OF OPERATOR: Marathon Oil Company

8. FARM OR LEASE NAME: Tin Cup Mesa

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

9. WELL NO.: 5-26

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1375' FNL & 1635' FEL

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. PERMIT NO.: 43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' Ungraded GL

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) See Below			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On March 3, 1988 notification was made to the Marathon Office that water trucks could no longer gain access to the permitted water source located in Section 35, T38S, R25E due to a beaver dam flooding the area. The State of Utah, Division of Natural Resources, Water Rights, was notified of the problem and Mr. John Solem granted verbal approval to change the point of diversion to Cross Creek (SW¼ Section 25, T38S, R25E). Mr. Bob Turri, BLM Monticello was notified of the problem and verbal approval was also granted to make the change.

BLM-Orig & 3--cc: UDOGM-2, WRF, FMK, WTR, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R P Mealer TITLE Regulatory Coordinator DATE March 3, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
MAR 24 1988
DIVISION OF
OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Injector	5. LEASE DESIGNATION AND SERIAL NO. U-31928 Drl.
2. NAME OF OPERATOR Marathon Oil Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME 032817
3. ADDRESS OF OPERATOR P. O. Box 2690, Cody, Wyoming 82414	7. UNIT AGREEMENT NAME Tin Cup Mesa
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1375' FNL & 1635' FEL	8. FARM OR LEASE NAME Tin Cup Mesa
	9. WELL NO. 5-26
	10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 26, T38S, R25E
14. PERMIT NO. 43-037-31368	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5101' Ungraded GL
	12. COUNTY OR PARISH San Juan / 13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			
(Other) See Below			X	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On March 16, 1988 verbal approval was acquired from Mr. Dale Manchester, BLM Moab, by Frank Krugh, Marathon, to use approximately 45 barrels of diesel as a mud additive in order to help recover stuck drill pipe. The diesel would be added to the mud system and recovered by vacuum truck from the pit. The BLM was also aware that the proposed setting depths of the casing may be changed due to adverse hole conditions.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, Drilling, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R P Mealer TITLE Regulatory Coordinator DATE March 16, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
MAR 24 1988
DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Injector

7. UNIT AGREEMENT NAME: Tin Cup Mesa

2. NAME OF OPERATOR: Marathon Oil Company

8. FARM OR LEASE NAME: Tin Cup Mesa

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

9. WELL NO.: 5-26

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1375' FNL & 1635' FEL

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. PERMIT NO.: 43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' Ungraded GL

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) See Below			X	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On March 21, 1988 verbal approval was acquired from Mr. Dale Manchester, BLM Moab, to plug and secure this well bore in the following manner. The well is being plugged due to adverse hole conditions and stuck drill pipe. Operations will be suspended pending engineering evaluations.

Plugging and Securing Procedure

1. Cement drill pipe in hole with 494 sacks of cement. Cement top is estimated to be 3500'.
2. Back off fish at 2371' and set a cement retainer at 2200'. Pump 1000' of cement below the retainer and place 50' of cement on top of the retainer.
3. Suspend operations until evaluations are complete.

Mr. Ron Firth with the State of Utah is aware of this procedure.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, WTR, JLS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED RP Mealer TITLE Regulatory Coordinator DATE March 22, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 3-25-88
BY: John R. Baza

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: Tin Cup Mesa

8. FARM OR LEASE NAME: Tin Cup Mesa

9. WELL NO.: 5-26

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED
AUG 19 1988
DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER ~~Water Injector~~

2. NAME OF OPERATOR: Marathon Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1375' FNL & 1635' FEL Re-Enter

14. PERMIT NO.: 43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5111' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) See Below			X	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above referenced well was previously drilled. However, during the drilling phase, drill pipe became stuck and the lower portion of the hole was lost. A cement plug and retainer was placed over the lost drill pipe and the hole was secured for future re-entry. At this time, Marathon requests approval to re-enter this well, kick-off from the existing wellbore, drill to a Total Depth of 5781' and complete the well as an injector. Attached please find;

1. A revised 10 point Drilling Operations Plan and casing design.
2. A Wellbore Diagram.
3. BOPE Schematic.
4. Direction Survey of existing wellbore
5. Copies of original drilling reports.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, WTR, Drilling-3, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R R Mealey TITLE Regulatory Coordinator DATE August 16, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action is required before commencing operations.

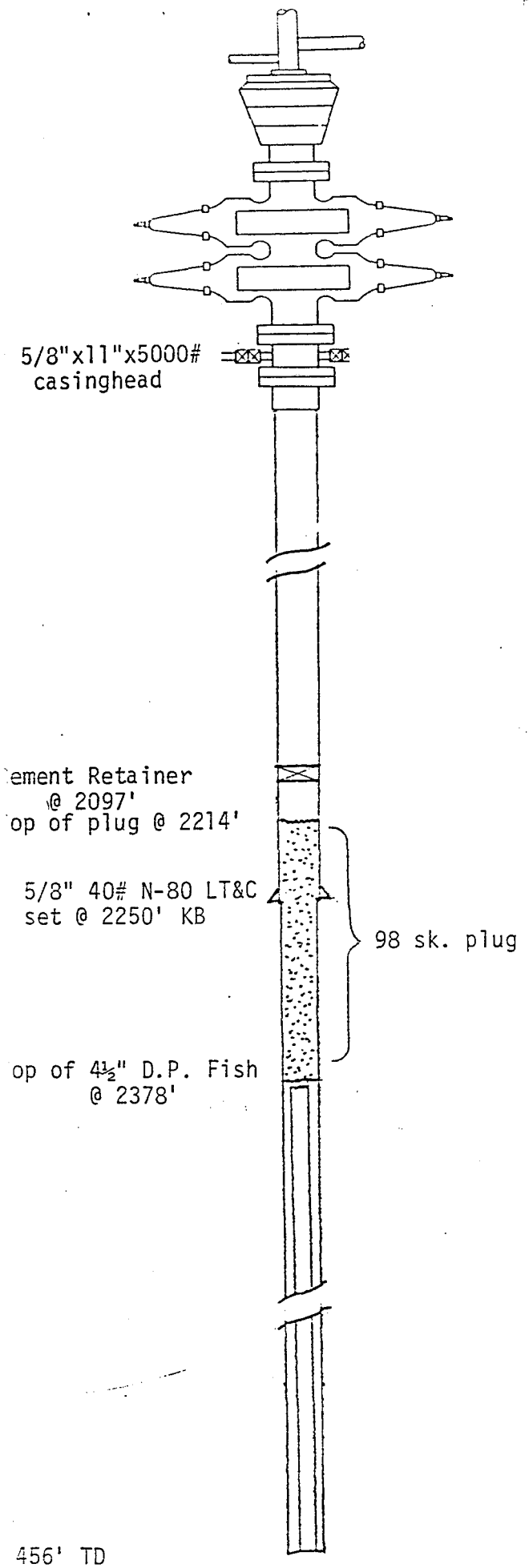
ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-29-88
BY: John R. Bay

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

EXHIBIT 'E'

Procedure for
Tin Cup Mesa #5-26
Re-Entry



1. MIRU drilling rig, N/U and test 5000# BOP stack.
2. Drill out cement retainer and dress off cement plug to 2255'.
3. Run leak-off test to ±14.0 ppg EMW.
4. P/U 1½" bent sub and downhole motor assembly. Kick-off cement plug in S28E direction. Build to 5°. POOH.
5. P/U slick drilling assembly drill ahead to 5400' TVD.
6. Run logs. Run and cement 7" intermediate casing.
7. N/U and test 5000# BOP stack. Test casing to 2500 psi.
8. Drill out cement and shoe. Drill to 5405'.
9. Run leak-off test to ±20.0 ppg EMW.
10. Drill and flow test Upper Ismay Formation.
11. Kill well if needed and drill to TD.
12. Run logs. Run and cement 5" liner.

CASING DESIGN

Well TIN CUP MESA AFE # 5-535-8
#5-26

Hole Size	Shoe Depth	T.O.C.	Casing O.D.	Drift	Grade	Wt.#/ft	Conn.	Tension - 1000 lbs			Collapse - PSI			Burst - PSI		
								Rating	Load	S.F.	Rating	Load	S.F.	Rating	Load	S.F.
12¼	2250	Surface	9.625	8.765	N-80	40	LT&C	737	90	8.18	3090	1170	2.54	5750	3105	1.85 SI
8 3/4	5400	Surface	7	6.151	N-80	26.0	LT&C	519	111.7	4.64	5410	3791	1.43	7240	5000	1.45
6¼	5791	5000	5"	4.283	N-80	15.0	FL4S	241	4.4	54.7	7250	6032	1.20	3290	5000	1.66

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/27/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH Plug Back	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
1990 ft.			Rig Released.	3/2/88	3/3/88	25

SUMMARY OF OPERATIONS

Finish Nippling Down BOP's. Install blind flange on wellhead. Clean mud pits. Rig released 3:00 P.M. 3/26/88 Total Depth of well 5456 ft. Top of fish 2378 ft. Cement Plug f/2378-2214/ Retainer @ 2100 ft. TOC at 1990 ft.

MUD INFORMATION

WEIGHT	VIS.	WL	CC	PH	PV	YP	GELS. 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1 ___ SPM @ ___ PSI 2 ___ SPM @ ___ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
					x	x

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1				6				11			
2				7				12			
3				8				13			
4				9				14			
5				10				15	TOTAL BHA		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.D.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
													9	

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
									9

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST

OPERATIONS IN SEQUENCE

HOURS	
9	Nipple down. Clean mud tanks
	Rig released. 3:00 P.M. 3/26/88
	Final T.D. 5456 ft.
	In hole 24 D.C. 6 1/4 O.D.
	Bit Sub
	6 HWDP
	Drill Bit.
	147 jts. D.P. Retrieved 77 jts. (75 good & 2 bad)
	(1) bad - Tube swelled.
	(1) bad - Box cracked.
	70 jts. Left in hole.
	Last Report

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 4573 CUM 490577 DAILY MUD 0 CUM 97823 REPORT GIVEN Ray Rosatal TAKEN THC

CRW/vic/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/26/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	ELEVATION KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
Plug back 1990 ft.			Nipple down	3/2/88	3/3/88	24

SUMMARY OF OPERATIONS

WOC- RIH and tagged cement plug at 2214 ft. with 4,000 lbs. (Plug soft). POOH. Set Retainer at 2100 ft. Circ. and set 46 sack cement plug from 2100 ft. to 1990 ft. Laydown drillpipe and begin nippling down.

MUD INFORMATION

WEIGHT	VIS.	WL	CC	PH	PV	YP	GELS. 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1 ____ SPM @ ____ psi 2 ____ SPM @ ____ psi

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
					x	x

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1				6				11			
2				7				12			
3				8				13			
4				9				14			
5				10				15	TOTAL BHA		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
	3 1/4			5 1/2					2 1/2		7 1/2		4 1/2	

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER Set Retainer	OTHER	OTHER	OTHER	OTHER	TOTAL
1/2				1/4					24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9 5/8" @ 2250 13.5 ppg

OPERATIONS IN SEQUENCE

HOURS	
7 1/2	WOC
1	RIH to 2214 ft. Tag cement with 4,000 lbs. @ 2214 ft. Cement soft.
7 1/2	Circ. Returns clabbered.
3/4	POOH
1 1/2	RIH with Halliburton Retainer. 3.1 ft. long. 1 ft. from top of retainer to rubber.
1/4	Set retainer at 2100 ft.
2	Circ.
1/2	Cement with Halliburton and Dowell. 46 sacks of Class "H" with
	D-76, D-13 D-65 19.90 ppg. weight. 2100 ft. to 1990 ft. TOC- 1990 ft.
2 1/2	Lay down drillpipe
4 1/2	Nipple down
	"

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 21572 CUM 486,004 DAILY MUD 998 CUM 93823 REPORT GIVEN Rau Rosenthal TAKEN THC

CRW/vip/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/25/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	ELEVATION KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456'			WOC - P+A	3/2/88	3/3/88	23

SUMMARY OF OPERATIONS

(TOC +/- 3462'. Perf @ 4519.) Pressure up against perfs to 1000 psi... No flow. No communication up annulus. Back off at 2378 ft. Unsuccessful attempt to set 17.7 ppg. cement plug in bottom of surface casing. Set 19.9 ppg. cement plug in casing. WOC

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS. 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1 ____ SPM @ ____ PSI; 2 ____ SPM @ ____ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
					X		X	

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1				6				11			
2				7				12			
3				8				13			
4				9				14	TOTAL BHA		
5				10				15			

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC.	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
	3 1/4			6 1/2							6 1/2			

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER Test Line + D.P.	OTHER Perf.	OTHER Press. against perf.	OTHER Back off	OTHER	TOTAL
3/4				1/2	2	1 1/2	1/2		24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9 5/8" @ 2250 13.5 ppg.

OPERATIONS IN SEQUENCE

HOURS	
2	WOC
1/2	Press. Test D.P. and lines with Dowell to 600 psi.
2	Rig up McCullough Perf. D.P. @ 4519'-4520 ft. 4 shots/ft .28 grams hole .48
1 1/2	Press. up to 600 psi on D.P. Bled off to 390 in 20 min.
	Press. up to 1000 Bled off to 690 15 min. No injection
1/2	Back off @ 2378 ft.
2 1/2	POOH ~~Test~~ Check Drill stem connections. ~~[illegible]~~ POOH and SLM. RIH open ended.
2	Circ. at 2378 ft.
2 1/4	Rig up Halliburton and cement with 57 sacks of class "E" 10# sand 10% salt 1% CFR-2 Well flowed back thru D.P. from unbalanced plug.
1	Circ. out cement.
3 1/2	Circ. + wait on Dowell.
1	Set cement plug D-76 D-13 D-65 98 sacks 19.9 ppg.
3/4	POOH
4 1/2	WOC
	2378.46 ft of D.P. recovered = ~~[illegible]~~. ~~[illegible]~~ 77 jts (76 good + 1 bad)
	1 bad jt from shotting off at 2218 ft.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 18712 CUM 464432 DAILY MUD 3394 CUM 92825 REPORT GIVEN Ray Rosenthal TAKEN THC

CRW/VIP/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/24/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	GL 5097 KB 5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456'			WOC	3/2/88	3/3/88	22

SUMMARY OF OPERATIONS

CEMENT WITH 500 SX BLEND CLASS "H" CEMENT MIXED TO 20 #/G. RAN GYRO SURVEY AND TEMPERATURE SURVEY WHILE WOC. TOC 3462' FROM TEMP. SURVEY.

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS. 0/10	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
9.3/9.2						/						

CORR. INHIB. PPM	OIL %	LCM#	BHT	HT-HP-WL	SLOW PUMP RATES
					1 SPM @ PM 2 SPM @ PM

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2 JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
				5½ x 8	5½ x 14

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
Desander				Drgilter			

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.
1	Same			
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15	TOTAL BHA	894.33		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
		6		1		1¼					13¾			

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
1¼		3/4		Bleed off pr. ½					24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9⅝" @ 2250 13.5 ppg

HOURS OPERATIONS IN SEQUENCE

HOURS	OPERATIONS
3/4	Circ. & condition.
1¼	Pump due pill 25 bbl. 61 strokes + 130 bbl. 1120 strokes mud w/ R-2 plug with Powell pumped 10 bbl. spacer 1000. Mix 500 sacks Class 'H' w/ 45# flake D-76 w. HL 1.5% D-65 + 0.4% D-13 Dump press. 1150. Bumped plug to 1350 psi.
1¾	WOC
½	Bleed off pressure.
1	Rig up Howco and back off at 2218 ft.
1	Circ. out 2218 to surface 200 bbl. mud. no cement in returns.
1/4	Screw into fish.
3¼	WOC
5	Rig up McCullough and Eastman. Directional survey every 50 ft. to 4450 ft. HK 280° 47° W - 3¼°
1	Run temp. survey f/2000 - 4476 ft. Est TOC 3462 ft.
	BH Temp. 126 °F
9	WOC

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 32762 CUM 445720 DAILY MUD 0 CUM 89431 REPORT GIVEN Kay / Rosenthal TAKEN THC

GRW/VID/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/23/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	~~[illegible]~~	Upper Ismay	MIXING CEMENT.	3/2/88	3/2/88	21

SUMMARY OF OPERATIONS

CIRCULATE AND CONDITION HOLE, WAIT ON CEMENT.

MUD INFORMATION

WEIGHT	VIS.	WL	CC	Ph	PV	YP	GELS. 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM
17.3	65	10.8		7.5	61	41	9 / 123	3	44.0	Tr	14000	200	

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1 ___ SPM @ ___ psi; 2 ___ SPM @ ___ psi

HYDRAULICS AND BIT

PUMP PRESS.	GPM 1	GPM 2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
500	~~[illegible]~~	193	6		~~[illegible]~~ x ~~[illegible]~~	~~[illegible]~~	5 1/2 x 14	40

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
Desander				Desilter			

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1 Same				6				11			
2				7				12			
3				8				13			
4				9				14			
5				10				15	TOTAL BHA 894.33		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
		24							24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9 5/8 @ 2250 13.5 ppg.

OPERATIONS IN SEQUENCE

HOURS	
24	Circ. & condition to plug. Wait on cement.
	Mixing cement at 7:00 A.M.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 6943 CUM 412958 DAILY MUD 661 CUM 89431 REPORT GIVEN Kay Rosenthal TAKEN THC

GRW/VIP/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD-AREA	AFE NO.
3/22/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	GL 5097 KB 5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	0	Upper Ismay	CIRCULATE & CONDITION	3/2/88	3/3/88	20

SUMMARY OF OPERATIONS

JAR ON FISH WITH NO SUCCESS. BACK OFF AT 2218' AND L/O FISHING TOOLS AND ONE COLLAR. RIH WITH OVERSHOT AND SCREW INTO FISH. RUN 2 3/4" GUAGE RING TO 4480'

MUD INFORMATION

WEIGHT	VIS.	WL	CC	Ph	PV	YP	GELS. 6/10	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
19.2	68	10.4		11.5	60	42	10/24	3	44.0	Tr	14500	180	

CORR. INHIB. PPM	OIL %	LCM#	BHT	HT-HP-WL	SLOW PUMP RATES
					1 SPM @ PM 2 SPM @ PM

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
					Y	X

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T	B	G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.
1	B.S.	1.00	7 7/8		6					11				
2	Sub	3.50	6 1/4	2 3/8	7					12				
3	24 x D.C.	709.23	6 1/4	2 3/8	8					13				
4	6 x HWDP	180.60	4 1/2	2 7/8	9					14				
5					10					15	TOTAL BHA	894.33		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
	5 3/4					10 3/4								

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
		7 1/2							24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			7 5/8" @ 2250' 13.5 PPG

HOURS OPERATIONS IN SEQUENCE

HOURS	OPERATIONS IN SEQUENCE
2	RIH
6 1/2	Jar on fish
3	Displace Pipe ~~Fresh~~ Fluid out of hole 83000 stroke .115661/stroke
1 1/4	Back off @ 2218 Ft.
2 1/4	POOH
1	Lay down 12 D.C. & Fish tools.
1 1/2	RIH
1/2	Circ.
2	Run ~~off~~ I.D. overshot ring 2 3/4" in D.P. to 4480 Ft.
4	Circ. and condition hole to plug.

3/21/88 7:00 P.M. 3-23 2025
1-25 450
4-25 1850

3 1/2 5428' 130 BBLS
T.O. DC'S 4714' OH
T.O. HWDP 4544'

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 11982 CUM 406015 DAILY MUD 280 CUM 88770 REPORT GIVEN Ken Ronspaul TAKEN THC

GRW/VID/EE

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/21/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	0	Upper Ismay	Stuck pipe	3/2/88	3/3/88	19

SUMMARY OF OPERATIONS

JARRED ON FISH, CHANGED OUT JARS TWICE.
T.O.F. 2218'. PIPE FREE AT 2371'.

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS. 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM
19.3	64	10.8	7.0	55	44	9/22	3	46.5	1/4	14500	200	

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1 ____ SPM @ ____ PSI; 2 ____ SPM @ ____ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2 JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
				x	x

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.
1	D.P.	30.68	4½		6	7x D.C.	216.55	6¼	2⅜	11				
2	X-over	1.60	6	2¼	7	X-over	1.38	6"	2¼	12				
3	Bumper jars	6.20	6	2	8	Acceler.	9.10	6"	2"	13				
4	Oil Jars	12.25	6	2	9	X-over	1.30	6"	2¼	14				
5	X-over	1.27	6¼	2¼	10					15	TOTAL BHA 279.83			

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC.	FISHING	RIG SERV.	W.O.C.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
	10			1¼		12¾								

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
									24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9⅝" @ 2250' 13.5 ppg.

OPERATIONS IN SEQUENCE

HOURS	
1/4	Back off 2218 ft. Free @ 2371 ft. Stuck immediately below 2371 ft.
4	POOH - RIH Change out jars. Break circ.
1 3/4	Jar on fish. Jars failed.
1½	Work pipe. Bump down.
2	Rig up 3-point back off @ 2218 ft.
3	POOH Change out jars RIH Break circ.
2 3/4	Jar at fish. Jars failed.
1 3/4	Run 3-point
1½	Circ step SST up to casing shoe (approx.) Took 2200 psi to move fluid.
	635 strokes.
3/4	Back off @ 2218 ft.
3	POOH Change out accelerator / Jars and bottom joint of drillpipe.
	Background gas trace → 1 unit.
	3-20-88 12:15 PM
	3-25 2040
	1-25 500
	4-25 1720
	Total inj. 2763 bbl.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 7881 CUM 394033 DAILY MUD 438 CUM 82490 REPORT GIVEN Ray Rosenthal TAKEN THC

Correct on mud cost -

GRW/VIP/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/20/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION		CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	GL 5097	KB 5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
			Stuck pipe	3/2/88	3/3/88	18

SUMMARY OF OPERATIONS

JAR ON PIPE WITH SURFACE JARS. BACK OFF AT 2187' AND TRIP FOR JARRING ASSEMBLY. BACK OFF AT 2218' AND TRIP TO CHANGE OUT JARS.

MUD INFORMATION

WEIGHT	VIS.	WL cc	PH	PV	YP	GELS. 0'/10'	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
19.3	70	10.8	11.5	57	40	12/26	3	46.5	1/4	17000	200	

CORR. INHIB. PPM	OIL %	LCM%	BHT	HT-HP-WL	SLOW PUMP RATES
					1 SPM @ PM; 2 SPM @ PM

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
					X		X	

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.
1	X-sub	1.60	4 1/2	2 1/4	6	X-over	1.78	6"	2 1/4	11				
2	Foam Jars	6.20	6	2	7	Bowen 6x2 Accelerator	9.10	6"	2"	12				
3	0-1 Jars	6.80	6	2	8	X-over	1.30	6"	2 1/4"	13				
4	X-over	1.27	6 1/4	2 1/4	9					14				
5	12 D.C.	370.06	6 1/4	2 7/8	10					15	TOTAL BHA	397.71		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
	3 1/2					14 1/2								

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
				Free point & back off 3	Lay down BHA 2 1/2	Screw into fish 1/2			

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9 5/8" @ 2250' 13.5 ppg.

HOURS OPERATIONS IN SEQUENCE

HOURS	OPERATIONS IN SEQUENCE
6 1/2	Jarring down.
1	Free point Free @ 2325 ft. Stuck 2356 ft.
1	Back off @ 2187 ft.
3 1/2	POOH
2 1/2	Pick up BHA
1/2	Screw into fish and break circ.
8	Jarring on fish. Up & down.
1	Free point and back off @ 2218 ft. Free @ 2371 ft.
	Jarred 15 ft loose in last 24 hrs.
	3/19/88 9:00 AM 2:45 PM
	7-23 2660 2060
	1-25 550 560
	4-25 1660 1725
	Total Inj. 1215 661. since injection re-started.
	Background gas 1-2 Units

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 23864 CUM 382152 DAILY MUD 495 CUM 84168 REPORT GIVEN Rau TAKEN THC

Rosenthal

GRW/VID/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/19/88	UTAH	SAN JUAN	TIN CUP MESA	5-585-8

WELL NAME & NUMBER	ELEVATION	CONTRACTOR-RIG NUMBER
TIN CUP MESA 5-26	5097 KB 5111	COLEMAN #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5451	—	UPPER ISMAY	STUCK PIPE	3/2/88	3/3/88	17

SUMMARY OF OPERATIONS

CIRCULATE & CONDITION HOLE. SPOTTED 135 SX PIPE FREE AGENT. P/U SURFACE JARS AND JAR DOWN ON PIPE.

MUD INFORMATION

WEIGHT	VIS.	WL cc	PH	PV	YP	GELS. 0/10	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
19.3	63	10.4	10.5	52	33	7/26	3	46.0	1/4	1400	260	

CORR. INHIB. PPM	OIL %	LCM #	BHT	MT-MP-WL	SLOW PUMP RATES
					1 SPM @ PM; 2 SPM @ PM

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2 JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
				X	X

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15	TOTAL BHA			

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC.	FISHING 17 1/2	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER SPOT 1 1/2 SPT	OTHER WORK 1 PIPE	OTHER	OTHER	TOTAL
		14							24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST

HOURS OPERATIONS IN SEQUENCE

HOURS	
14	CIRC & CONDITION HOLE WORK PIPE
1 1/2	SPOT 135 SXS SPT IN PLACE AT 9:30 PM 3/18/88.
1	WORK STUCK PIPE 160 M. 60M DOWN.
7 1/2	P/U JARS AND JAR DOWN ON PIPE W/ 60M SURFACE JARS. MOVE SPT 1/2 BBL/HR.
	BIT. 28' OFF BOTTOM.
	11:00 AM 3/18/88.
	3-23 2050
	1-25 1550
	4-25 1425 DOWN
	3:30 PM. 3/18/88.
	3-23 2060
	1-25 1525
	4-25 1400 DOWN.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 37,873 CUM 358,248 DAILY MUD 1,330 CUM 83,668 REPORT GIVEN RLH TAKEN FFS.

GRW/VID/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/18/87	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	ELEVATION KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	0	Upper Ismay	Stuck Pipe	3/2/88	3/3/88	16

SUMMARY OF OPERATIONS

CONDITION HOLE AND MIX PIPE FREEING AGENT.

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS. 0'/10'	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
19.5	78	10.8	11.5	69	46	20/51	3	49.0	1/4	14000	260	

CORR. INHIB. PPM	OIL %	LCM#	BHT	HT-HP-WL	SLOW PUMP RATES
					1 SPM @ PM; 2 SPM @ PM

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
900	231			247/135	5½ X 8	48	X	

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
Derander				Desitter			

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS
5					* * *							

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1	Same				6				11			
2					7				12			
3					8				13			
4					9				14			
5					10				15 TOTAL BHA	894.33		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
				Condition hole 24					24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9⅝" @ 2250' 13.5 ppg

HOURS OPERATIONS IN SEQUENCE

24 Condition hole and circ. Work stuck pipe.
Mix SFT with Halliburton in a batch tank.

	wall	PPG	Time		
	3-17	88	3:00 PM		
	3-23	2008	3:00 PM		
	1-5	700	3:00 PM	SFT	
	4-25	1460	3:00 PM	16.9 PPG	180 VIS.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 7221 CUM 320,415 DAILY MUD 965 CUM 82338 REPORT GIVEN Roy Leventhal TAKEN THC

GRW/VID/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/17/88	Utah	San Juan	Tin Cup Mesa	5-585-B

WELL NAME & NUMBER	ELEVATION	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	GL 5097 KB 5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	0	Upper Ismay	STUCK PIPE	3/2/88	3/3/88	15

SUMMARY OF OPERATIONS

MIX BAR AND KILL WELL. OBSERVE WELL FOR 4 HOURS WITH NO FLOW. CIRCULATE BOTTOMS UP WITH NO INDICATION OF INFLUX. CIRCULATE AND CONDITION.

MUD INFORMATION

WEIGHT	VIS.	WL cc	PH	PV	YP	GELS. 0'/10'/C	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
15.4	79	12.0	10.0	72	48	25/65	3	48.5	1/4	16,000	240	

CORR. INHIB. PPM	OIL %	LCM#	BHT	MT-MP-WL	SLOW PUMP RATES
					1 SPM @ PM; 2 SPM @ PM

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2 JET NOZ. VEL	ANNULAR VEL DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
800	113		121/67	5½ x 8	47	x	

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
Desilter				Desander			

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T	B	G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.
1	Same				6					11				
2					7					12				
3					8					13				
4					9					14				
5					10					15	TOTAL BHA			

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASHIREAM
						1								

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER Chk for flow	OTHER Kill Well	OTHER Mix bar	OTHER	OTHER	TOTAL
		12¼		3	1½	6¼			24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9⅝" @ 2250' 13.5 ppg

HOURS OPERATIONS IN SEQUENCE

HOURS	OPERATIONS IN SEQUENCE
½	Mix bar
½	Kill well thru choke
4½	Mix bar
1	Kill well thru choke. Well dead.
1¼	Mix bar.
3¼	Circ. and condition hole.
1	3-point & check for flow. Free at 2316 ft.
	Partially stuck @ 2348 65% free
3	Check for flow. No flow. No losses.
9	Circ. & condition hole. Work stuck pipe.
	Background gas 80 units when started circ. 0 units this morning.

2:30PM 3/14/88	3-23	2005i	3PM 3/16/88	3-23	1850 psi
	1-25	940 psi		1-25	825 psi
	4-25	950 psi		4-25	1500 psi
11:00AM 3/15/88	3-23	1755 psi	3PM 3/17/88	3-23	2000 PSI
	1-25	850 psi		1-25	700 PSI
	4-25	1500 psi		4-25	1460 PSI

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 21739 CUM 312694 DAILY MUD 10860 CUM 81373 REPORT GIVEN Ray Rosenthal TAKEN THC

GRW/VID/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/16/88	Utah	San Juan	Tin Cup Mesa	5-585-B

WELL NAME & NUMBER	ELEVATION GL	ELEVATION KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS.	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	0	Upper Ismay	well control.	3/2/88	3/3/88	14

SUMMARY OF OPERATIONS

CIRCULATE AND CONDITION MUD, WEIGHT ONE FOR AND BACKGROUND GAS INCREASING. SHUT DOWN PUMPS AND DETECTED SLIGHT FLOW. SHUT IN WELL. R/U WIRELINE AND BLOW JETS OUT OF ST.

MUD INFORMATION mixing mud to 19.0 #/G

WEIGHT	VIS.	WL cc	PH	PV	YP	GELS 0/10	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
19.2	58	27.5	11	43	37	18/44	3	47	1/4	16,800	20	

CORR. INHIB. PPM	OIL %	LCM#	BHT	MT-MP-WL	SLOW PUMP RATES
					1 ____ SPM @ ____ PSI 2 ____ SPM @ ____ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2 JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1 SPM	PUMP NO. 2 SPM
				X	X

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
Desilter				Desander			

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T	CONDITION B	CONDITION G	REMARKS

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.		COMPONENT	LENGTH	O.D.	I.D.
1	Same				6					11				
2					7					12				
3					8					13				
4					9					14				
5					10					15	TOTAL BHA	894.33		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
		15 1/2		M.I.A. 6	Fill well in D.P. 1	Blow jets out of D.P. 1 1/2			24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
			9 5/8" @ 2250' 13.5 ppg

HOURS OPERATIONS IN SEQUENCE

HOURS	OPERATIONS IN SEQUENCE
15 1/2	Circ. & condition hole & reciprocating pipe.
1	Rig up Hemco. Well flowing. Shut well in. S.I.P. - 550 Casing - 550 psi. MW 17.5 out 17.2 in.
1	Mix bar to 19.0 ppg.
1/2	Pump 19.0 ppg. mud down D.P. D.P. pressure → 0 casing → 400 psi
1 1/2	Run in hole w/ Hemco. Blew jets.
4	Mix mud to 19.0 ppg.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 21821 CUM 290955 DAILY MUD 16481 CUM 70513 REPORT GIVEN Ray Rosenthal TAKEN THC

DRW/VID/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY-PARISH	FIELD AREA	AFE NO.
3/15/88	Utah	San Juan	Tin Cup Mesa	5-585-8

WELL NAME & NUMBER	ELEVATION GL	KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26	5097	5111	Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456'	0	Upper Ismay	STUCK PIPE	3/2/88	3/3/88	13

SUMMARY OF OPERATIONS

WEIGHT UP TO 18.8 PPG AND KILL WELL. OPEN RAMS AT MIDNIGHT. WELL DEAD. CIRCULATE AND CONDITION MUD WORK STUCK PIPE.

MUD INFORMATION

WEIGHT	VIS.	WL	CC	PH	PV	YP	GELS. 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM
19.0	31	11.5		40	36	40	17/40	3	40	1/4	11,500	20	

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1 SPM @ PSI; 2 SPM @ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
1700	165		312	102/182	5½ x 8	68	x	

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
Desilter off							

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS
7⅞	HTC	ATJ 22C		PB123	10 11 x	5005		451	35½	12.7		

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD
—	—	—	61

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT
141	141	143

DRILLING ASSEMBLY – FROM BOTTOM UP

COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1 Same				6				11			
2				7				12			
3				8				13			
4				9				14			
5				10				15 TOTAL BHA	894.33		

TIME DISTRIBUTION – HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER Mix & condition mud 12½	OTHER Kill well 5½	OTHER	OTHER	OTHER	TOTAL
		6		12½	5½				24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
	182	3/6/88	9⅝" @ 2250 13.5 ppg

OPERATIONS IN SEQUENCE

HOURS	
8	Weight up with bar to 18.8 ppg.
4	Kill well with Dowell SIDP 2575 SICP 2625
	SIDP 100 SIDP 100 @ 1½ bpm
	circ. pressure 600 psi on final round.
1½	Weight up surface mud system to 18.8 ppg. (506bbl)
½	Kill well with Dowell / SICP 100 SIDP 100
3	Mix up total mud system
1	Kill well. Returns 18.8 ppg 0 psi. Open rams. Zero flow to well dead.
6	Circ. + condition mud. Pipe stuck. Work pipe.
	BLM confirmed O.K. to flow to disposal pit. MARC WADE.
	*. BOTTOMS UP SALTWATER CUT MUD
	W/ SOME GAS & OIL
	REPORT 10:30 PM 3/15/88.
	4-25 FLOWING 1060 3254 BWPD RATE.
	1-25 FLOWING 975
	3-23 0? SHUT IN.
	FREE POINT ESTIMATED AT 3360'.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 33599 CUM 269134 DAILY MUD 23460 CUM 54032 REPORT GIVEN MRC Hansen TAKEN THC

GRW/vlp/86

2,000 sacks

Marathon Oil Company

5-585-E

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD AREA	AFE NO.
3/14/88	Utah	San Juan	Tin Cup Mesa	[illegible]

WELL NAME & NUMBER	ELEVATION GL	KB	CONTRACTOR-RIG NUMBER
Tin Cup Mesa 5-26			Coleman #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5456	115	Upper Ismay	WELL CONTROL	3/2/88	3/3/88	12

SUMMARY OF OPERATIONS

DRILLED TO 5456'. WELL FLOW. SHUT IN WITH 2600 SIDPP AND 2650 SICP. RAISING MW TO 18.7 PPG.

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS 0/10	FC	% SOLIDS	% SAND	CHLORIDES	CALCIUM	SALT PPM
17.4	41	18.0	10.5	24	11	7/21	3	32	1/4	6500	20	

CORR. INHIB. PPM	OIL %	LCM %	BHT	HT-HP-WL	SLOW PUMP RATES
					1) ~~[illegible]~~ 34 SPM @ 700 PSI; 2) SPM @ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
1800	225		425	131/240	5 1/2 x 8	96	x	

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T B G	REMARKS
5	7 7/8	HTC	ATJ 22C	PB123	10 11 X	5005		451	35 1/2	12.7		

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD
55	45	1/4 → 1/2	61,000

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT
141,000	141,000	143,000

DRILLING ASSEMBLY – FROM BOTTOM UP

COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1 Same				6				11			
2				7				12			
3				8				13			
4				9				14			
5				10				15	TOTAL BHA 894.33		

TIME DISTRIBUTION – HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
9 1/2			1/2											

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER Control well Mix Mud	OTHER	OTHER	OTHER	OTHER	TOTAL
				14					24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
	182	3/6/88	9 5/8 @ 2250 13.5 ppg.

OPERATIONS IN SEQUENCE

HOURS	
3	Drill
1/2	Rig Serv. Check BOP & Flanges O.K.
6 1/2	Drill
2	Shut well in stabalize pressure
	Well kick 10 bbl gain' 2 1/2" stream
	Shut in D.P. 2400'
	Shut in Casing 2550 @ 5:15 P.M.
	Shut in D.P.' 2600
	Casing 2650 @ 7:15 P.M.
2 1/2	Mix bar
2 1/2	Wait on bar
2	Mix bar
	Shut in D.P. 2550 Drop 50psi since shut in injection wells.
	Casing 2600 @ Present well No. 425 / 125 / 326
	~~[illegible]~~
	% Shut down @ 5:00 → 6:00 A.M.
	Anhydrite 15 Shale 35 Limestone 50 Flowback @ 10:00 → 11:00 A.M.
	Background 40 Kick ~~[illegible]~~ Con. 70 kick dropping when shut in.
	Injecting @ 3000 psi
	Weight of injection fluid?

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES		VERT. SEC.	DOG LEG

DAILY WELL COST 25,720 CUM 235,535 DAILY MUD 20881 CUM 30572 REPORT GIVEN Mac Hansen TAKEN THC

GRW/vlp/86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO
3/13/88	UTAH	SAN JUAN	TIN CUP MESA	5585-8

WELL NAME & NUMBER	ELEVATION	CONTRACTOR-RIG NUMBER
TIN CUP MESA 5-26	G.L. / K.B.	COLEMAN 4

DEPTH	FOOTAGE 24 HRS.	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5341'	296'	HONAKER TRAIL	Ø	3/2/88	3/3/88	11

SUMMARY OF OPERATIONS

DRILLED TO 5341'.

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS 0/10	FC	%SOLIDS	%SAND	CHLORIDES PPM	CALCIUM	SALT PPM
9.9+	38	16	10	10	11	6/20	3	9	1/4	7500	80	

CORR. INHIB. PPM	OIL %	LCM#	BHT	HT-HP-WL	SLOW PUMP RATES
					1 34 SPM @ 500 PSI
					2 25 SPM @ 400 PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2 JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
1800	225	425	131/240	5 1/2	8 / 96		

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UP	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UP	GPM

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32"	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T	B	G	REMARKS
5	7 7/8	HTC	ATJ 22C	PB123	10 11 X	5005		336	26	12.9				

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD
55	45	1/4	6M.

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT
140M	140M	142M.

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1	SAME				6				11			
2					7				12			
3					8				13			
4					9				14			
5					10				15			

TOTAL BHA 89433'

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
23 1/2							1/2							

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
									24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
	172 1/2	3/6/88	9 5/8 @ 2250' 13.5 PPG.

HOURS OPERATIONS IN SEQUENCE

HOURS	OPERATIONS IN SEQUENCE
2	Ø
1/2	RIG SERVICE CHANGE WT. INDICATOR.
21 1/2	Ø
	— RAISE WT TO 10.2 PPG WE TO CHLORIDES INCREASING
	WITH
	SH. 10 %
	LS 9 %
	BGG 2-7 UNITS
	CONN 5-7 UNITS.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG

DAILY WELL COST 6493 CUM 209,815 DAILY MUD 1113 CUM 9691 REPORT GIVEN MH TAKEN FS

GRW/VID'86

Marathon Oil Company

DAILY DRILLING REPORT

DATE	STATE	COUNTY/PARISH	FIELD/AREA	AFE NO.
3/12/88	UTAH	SAN JUAN	TIN CUP MESA	5-5828

WELL NAME & NUMBER	ELEVATION	CONTRACTOR-RIG NUMBER
TIN CUP MESA 5-26	GL: KB	COLEMAN #4

DEPTH	FOOTAGE 24 HRS	FORMATION	PRESENT OPERATION	MOVE IN DATE	SPUD DATE	DAYS SINCE SPUD
5045'	260'	HERMOSA/TRAK	∅	3/2/88	3/3/88	10

SUMMARY OF OPERATIONS

TRIPPED FOR BIT AT 5005'.

MUD INFORMATION

WEIGHT	VIS.	WL CC	PH	PV	YP	GELS. 0/10	FC	%SOLIDS	%SAND	CHLORIDES	CALCIUM	SALT PPM
10.3	44	12.8	10.0	13	13	7/23	3	11	1/4	4000	40	

CORR. INHIB. PPM	OIL %	LCM#	BHT	HT-HP-WL	SLOW PUMP RATES
					1 33 SPM @ PSI
					2 SPM @ PSI

HYDRAULICS AND BIT

PUMP PRESS.	1 GPM	2	JET NOZ. VEL.	ANNULAR VEL. DP/DC	PUMP NO. 1	SPM	PUMP NO. 2	SPM
1800	225		425	131/240	5 1/2 x 8	96		

SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM	SOLIDS REMOVAL UNIT/TYPE	WT OF	WT UF	GPM
DESICTOR	10.2	13.1	300				

BIT NO.	SIZE	MAKE	TYPE	SERIAL NO.	JETS/32	DEPTH IN	DEPTH OUT	FEET	HRS. RUN	FT/HR	CONDITION T	B	G	REMARKS
4	7 7/8	SEC	STR CF	367082	11 11 X	4178	5005	832	50	16.6	7	F	I	
5	7 7/8	HTC	ATJ 22C	PB123	10 11 X	5005		40	2 1/2	16.0				

RPM	WT ON BIT	ROTARY TORQUE	USABLE BHA WT. IN MUD
60/55	50/45	1/4	61M.

ROTATING STRING WEIGHT	SLACK OFF WEIGHT	PICK UP WEIGHT
107M.	107M	107M

DRILLING ASSEMBLY - FROM BOTTOM UP

	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.	COMPONENT	LENGTH	O.D.	I.D.
1	STABCE				6				11			
2					7				12			
3					8				13			
4					9				14			
5					10				15	TOTAL BHA 894.33		

TIME DISTRIBUTION - HOURS

DRILLING	TRIP	SURVEY	RIG REPAIR	CIRC.	LOST CIRC	FISHING	RIG SERV.	W.O.O.	L/D DP	CASING	WOC	N/U	N/D	WASH/REAM
18	5	1/2					1/2							

CEMENTING	CK. BOE	CONDITION HOLE	LOG	OTHER	OTHER	OTHER	OTHER	OTHER	TOTAL
									24

HRS. ON JARS/SS	HRS. SINCE LAST INSPECTION	BOP TEST DATE	LAST CASING/SHOE TEST
	149	3/6/88	9 5/8" @ 2250' BS&R

HOURS OPERATIONS IN SEQUENCE

HOURS	
3	∅
1/2	RIG SERVICE BOPE AND CREW.
10 1/2	∅
1/2	SURVEY
2 1/2	∅ 5005' BIT TORQUE ROP ↓
5	ROUND TRIP FOR BIT NO FILL NO PROBLEMS ✱
2 1/2	∅

✱ FUNCTION TEST BLIND RAMS
- CHECK ALL BOLTS ON STACK.

DIRECTIONAL SURVEYS

MEASURED DEPTH	ANGLE	DIRECTION	TVD	COORDINATES	VERT. SEC.	DOG LEG
4935	1/2°					

DAILY WELL COST 9578 CUM 203322 DAILY MUD 953 CUM 8578 REPORT GIVEN MCH TAKEN PFS

DRW/VIC/86

MARATHON OIL COMPANY
Tin Cup Mesa #5-26 (Redrill)
AFE #5-585-8
Drilling Operations Plan
1375' FNL, 1635' FEL
Sec. 26, T38N, R25W
San Juan County, Utah
Elevation: 5111 KB
5097' GL

June 8, 1988

1. Geologic name of surface:

Jurrasic Morrison Formation

2. Estimated tops of important geologic markers:

Formation	Depth (K.B.)	Depth (From Sea Level)
Chinle	1576'	+3535'
Shinarump	2376'	+2735'
Moenkopi	2431'	+2680'
Cutler	2496'	+2615'
Honaker Trail	4336'	+ 775'
Paradox	5276'	- 165'
Upper Ismay	5430'	- 319'
Hovenweep	5591'	- 480'
Lower Ismay	5623'	- 512'
Gothic	5676'	- 565'
Desert Creek	5691'	- 580'
Chimney Rock	5771'	- 660'
TD	5781'	- 670'
Akah	5791'	- 680'

3. Estimated depths of anticipated water, oil, gas or other mineral bearing formations:

Formation	Depth (K.B.)	Possible Content
Upper Ismay	5430'	Gas-Saltwater
Desert Creek	5691'	Oil-Gas

4. Sample, logging, testing, and coring program:

MSFL-DIL-SP-GR-Cal from TD to surface casing with GR to surface.

FDC-CNL-GR-Cal from TD to surface casing.

FMS Log from TD to 5420'.

DST's are anticipated in the Desert Creek.

Mud loggers on location from 5200'-TD.

Samples will be caught, bagged, and dried in 30' intervals from 4300' to 5200' and then in 10' intervals to TD or as specified by the Company Representative.

5. Pressures and temperatures:

Maximum anticipated bottom hole pressure: Upper Ismay 5500 psi OVERPRESSURED.

See Exhibit E for well history.

Maximum anticipated bottom hole temperature: 136°F.

6a. Casing program:

Note: The 5" liner will include approximately 400' of overlap in the 7" casing placing the top of the liner at 5000'.

Min. Hole Size	Casing O.D.	Grade	Weight	Setting Depth	New or Used	Conn.
22"	16"	X-42	42.0#	96'	In Place	
12 1/4"	9 5/8"	N-80	40.0#	2,250'	In Place	
8 3/4"	7"	N-80	26.0#	5,400'	New	8rd LT&C
6 1/8"	5"	N-80	15.0#	5,791'	New	FL4S

6b. Cementing program:

7" Intermediate Casing

Casing equipment will include a float shoe, a float collar, centralizers, and scratchers. Centralizers will be run on the first 6 joints of casing and then spaced every third joint to the surface casing shoe. Cable-type scratchers will be run every 15' on the first 6 joints of casing.

Casing will be lowered into the hole slowly enough to avoid excessive surge pressures. Mud volumes/flows will be monitored throughout the job. Hole conditions permitting, the mud will be conditioned to optimum rheology and weight prior to cementing. The casing will be reciprocated during circulation and placement of the cement if hole conditions permit.

All cement volumes will be determined from the caliper log. Excess cement will be determined from present hole conditions. Excess cement will be a minimum 25% of caliper log volumes.

Preceding the cement, ten barrels of weighted mud flush will be used.

Cement Slurry:

Lead Slurry: (4800' - surface)

Type:	Light-Weight w/2% $CaCl^2$, ¼#sk Floseal
Cement Height:	Surface
Slurry Weight:	13.1 ppg
Yield:	1.69 ft^3/sx
Min. Cement Required:	494 sacks (25% excess openhole)

Tail Slurry: (5400' - 4800')

Type:	Class 'B' w/.6% FLA
Slurry Weight:	15.6
Yield:	1.18 ft^3/sx
Min. Cement Required:	103 sacks (25% excess plus shoe joint)

5" Liner

Liner Equipment will include a float shoe, a landing collar with a latch-down plug, a liner hanger-packer, a tie-back sleeve, bow-type centralizers, and solid-body turbulating centralizers. Approximately 400' of the 5" liner will overlap the 7" casing.

The liner will be lowered into the hole slowly enough to avoid excessive surge and swab pressures. Mud/flow volumes will be monitored throughout the job. Any hole problems will be resolved prior to attempting to run the liner. If high torque persist, it will be necessary to use a hydraulic set casing hanger. Hole conditions permitting, drilling mud will be conditioned to optimum cement rheology and weight prior to pulling out of the hole to run the liner. The liner will be reciprocated or rotated or both if hole conditions permit. If there is substantial hole drag while running the liner, no attempt to reciprocate will be made. A cement batch mixer will be used to ensure uniform quality slurry. Final cement recipes will be confirmed by pilot tests on the actual water, chemicals, and cement to be used on the well. Cement density will be increased as required for well control.

The liner will be cemented with 25 sxs. of light scavenger slurry followed by 47 sacks of class 'G' cement and additives.

The actual volume will be confirmed by caliper log to place the top of the Class 'G' cement at the liner top. A minimum of 25% excess in the open hole section will be included.

Lead Slurry:

Type:	Lightweight scavenger
Weight:	13.1ppg
Yield:	1.69 cu. ft./sack
Cement Required:	25 sacks

Tail Slurry:

Type:	Class 'G' and additives
Weight:	15.6 ppg
Yield:	1.18 ft/sack
Cement Required:	59 sacks (25% excess openhole plus shoe joint)

7. BOP equipment while drilling under surface casing will include a dual ram-type preventer with pipe/blind rams and annular preventer. All equipment while drilling below surface casing will have a minimum working pressure of 5,000 psi. (See Exhibit 'D'.) The accumulator will be of sufficient size to open and close all components without using the pump. The minimum testing requirements will be as follows:

   a) All ram-type preventers will be tested to the rated working pressure of the stack.
   b) The annular-type preventer will be tested to 50% of its rated working pressure.
   c) Tests will be run at the time of installation and following repairs, prior to drilling out of each casing shoe, and at least every 30 days.
   d) Casing strings - The surface casing shall be pressure tested to 2500 psi prior to drilling the cement retainer; test pressure will not exceed 70% of the casing's internal yield pressure.

8. Mud Program:

From	To	Type Mud	Weight	Oil %	Water Loss
2250'	5400'	Chem-Gel	10.3-10.5	0	15-22 cc's
5400'	TD	Chem-Gel	10.3-19.5	0	10-12 cc's

   *See attached well history

9. Type of drilling tools and auxiliary equipment:

   A. A kelly cock of 5000 psi WP will be used.
   B. A pit volume indicator, mud flow indicator, and pump pressure recorder will be used.
   C. A 5000 psi working pressure full opening safety valve will be available to stab into the drill pipe when necessary if the kelly is not in the string.
   D. A drilling rate recorder calibrated to record drilling time for each one foot interval will be used.

10. Deviation Control:

    Surface Location: 1375' FNL, 1635' FEL, Sec. 26, T38S, R25E

From	To	Maximum Distance Between Surveys	Maximum Deviation From Vertical	Maximum Change Per 100' of Depth
2250'	2850'	90'	2°	3°
2850'	TD	300'	1°	1°

    Refer to Exhibit 'E' detailed wellbore diagram and drill out prodecure.

11. The anticipated duration: 30 days.

REGION APPROVAL

Approved Date

Originator: _____

THC: _____

FFS: Fred Schneider (by Jan Langen 7/13/88)

RDWin: R D Winland 7-13-88

DRT: Douglas Tetheld 7-13-88

WTR: [signature] 7/19/88

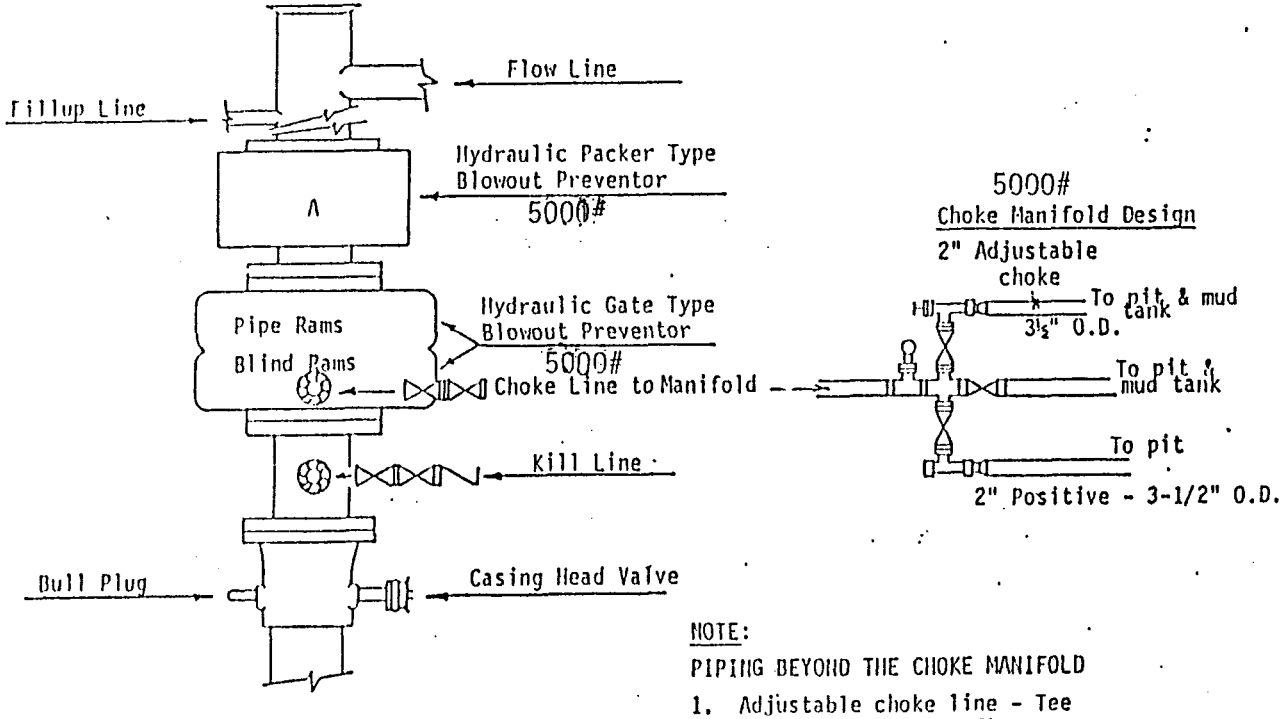
DES: D. E. [signature] 7/20/88.

JLM: J. J. Messer 7/22/88

RJD: [signature] 7/25/88

JRK: [signature] 7/26/88

TIN CUP MESA #5-26



NOTE:

PIPING BEYOND THE CHOKE MANIFOLD

1. Adjustable choke line - Tee and two valves for flow to either the mud tank or pit.
2. Full opening line - Tee and two valves for flow to either the mud tank or pit.

EXHIBIT 'D'

1. Blowout preventors, master valve, plug valves, and all fittings must be in good condition. Use new API seal rings.
2. All fittings (gates, valves, etc.) to be of equivalent pressure rating as preventors. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BOP to be plug type and nominal 3".
3. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
4. Safety valve (OMSCO or equivalent) must be available on rig floor at all times and with proper connections. The ID of safety valves should be as great as ID of tool joints or drill pipe.
5. Kelly safety valve installed, same working pressure as BOP.
6. All lines and controls to preventors must be connected and tested before drilling out of surface pipe.
7. BOP's must be fluid operated, complete with accumulator. Controls may be either on floor or ground near steps from rig floor.
8. Fillup line tied to drilling nipple, the connection must be below and approximately 90° to the flow line.
9. Gauge will be installed for testing but removed while drilling.
10. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.
11. Chokes must be adjustable and positive.
12. One side of casinghead may be bull plugged.

WHEN DRILLING -- USE:

Top preventor -- Drill pipe rams.
Bottom preventor -- Blind rams.

WHEN RUNNING CASING -- USE:

Top preventor -- Casing rams.
Bottom preventor -- Blind rams.

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

August 29, 1988

Marathon Oil Company
P. O. Box 2690
Cody, Wyoming 82414

Gentlemen:

Re: Tin Cup Mesa 5-26 - SW NE Sec. 26, T. 38S, R. 25E - San Juan County, Utah
1375' FNL, 1635' FEL

Approval to re-enter the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31368.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

lr
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
NOV 14 1988
DIVISION OF OIL, GAS & MINING

7. UNIT AGREEMENT NAME: Tin Cup Mesa

1. OIL WELL ☐ GAS WELL ☐ OTHER Water Injector

8. FARM OR LEASE NAME: Tin Cup Mesa

2. NAME OF OPERATOR: Marathon Oil Company

9. WELL NO.: 5-26

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1375' FNL & 1635' FWL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. PERMIT NO.: 43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5111' KB

12. COUNTY OR PARISH: San Juan

13. STATE: UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Reactivated			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On September 25, 1988 necessary measures were undertaken to re-enter the previously spudded well. BOP's were installed and witnessed by the BLM. On September 26, 1988 Coleman Rig #4 commenced actual re-entry.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, ECS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R P Mueller TITLE Regulatory Coordinator DATE September 26, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE Branch of Fluid Minerals, Moab District DATE OCT 31 1988

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RPMueller

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

7

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER: Permitted to be drilled as an Injector

7. UNIT AGREEMENT NAME: Tin Cup Mesa

2. NAME OF OPERATOR: Marathon Oil Company

8. FARM OR LEASE NAME: Tin Cup Mesa

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

9. WELL NO.: 5-26

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1375' FNL & 1635' FEL

RECEIVED
DEC 09 1988
DIVISION OF OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. PERMIT NO.: 43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' KB

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) First Production			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above referenced well first produced on December 5, 1988, at 5:00 p.m. The well is producing oil and gas to the Tin Cup Mesa Facility. This was reported to Mr. Lynn Jackson BLM, Moab by Frank Krugh Marathon, Cody on December 6, 1988.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, TKS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED RPMealey TITLE Regulatory Coordinator DATE December 6, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME
Tin Cup Mesa

1. OIL WELL ☒ GAS WELL ☐ OTHER Permitted as an Injector

8. FARM OR LEASE NAME
Tin Cup Mesa

2. NAME OF OPERATOR
Marathon Oil Company

9. WELL NO.
5-26

3. ADDRESS OF OPERATOR
P. O. Box 2690, Cody, Wyoming 82414

RECEIVED
DEC 14 1988

10. FIELD AND POOL, OR WILDCAT
Tin Cup Mesa

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1375' FNL & 1635' FEL

DIVISION OF
OIL, GAS & MINING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T38S, R25E

14. PERMIT NO.
43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5111' KB

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☒	(Other)			
(Other) Please See Below				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above referenced well was permitted to be drilled as an injection well. Due to favorable oil production from the proposed injection zone, Marathon Oil Company requests approval to place this well on production. At this time, however, Marathon does not want to cancel the injection permit because the well may be converted to injection once oil production drops. Presently a flowline is being installed and will follow the originaly proposed injection line route to the Tin Cup Mesa Gas Facility where the oil will be measured and stored prior to shipping.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, TKS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED R P Mealer TITLE Regulatory Coordinator DATE November 22, 1988

(This space for Federal or State office use)

APPROVED BY Kenneth V Rhea TITLE Acting District Mgr DATE 12/2/88
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12-19-88
BY: [illegible]

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR MARATHON OIL COMPANY

OPERATOR CODE N3490

ADDRESS

PHONE NO. ( )

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	2765	43-037-31368	TIN CUP MESA #5-26	SWNE	26	38S	25E	SAN JUAN		

COMMENTS: FIELD-TIN CUP MESA
LEASE-FEDERAL
UNIT-TIN CUP MESA
PROPOSED ZONE-AKAH
(2 OTHER WELLS IN SEC. 26 OPERATED BY MARATHON, UNIT WELL, ASSIGN SAME ENTITY 2765 ON-)
1-9-89.

COMMENTS: **BROUGHT TO MY ATTENTION BY TAS, RECEIVED SUNDRY REPORTING PRODUCTION. AWAITING SPUD REPORT, ENTITY ACTION FORM, & WELL COMPLETION. (REENTRY-ORIGINALLY APPROVED FOR INJ.)

COMMENTS:

COMMENTS:

COMMENTS:

ACTION CODES:
A - ESTABLISH NEW ENTITY FOR NEW WELL
B - ADD NEW WELL TO EXISTING ENTITY
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
E - OTHER (EXPLAIN IN COMMENTS SECTION)
(SEE INSTRUCTIONS)

LCR
SIGNATURE
ADMIN. ANALYST
TITLE
12-13-88
DATE

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] **Well File** Sun Cup Mesa 5-06 [] **Suspense** (Return Date) _____ [N] **Other** LCR

(Location) Sec 16 Twp 38S Rng 25E (To - Initials) _____

(API No.) 43-037-31368

1. Date of Phone Call: 10-13-88 Time: 8:09

2. DOGM Employee (name) Lisa S (Initiated Call [N])
Talked to:
Name Frank [redacted] (Initiated Call [ ]) - Phone No. ( )
of (Company/Organization) Marathon Oil Co.

3. Topic of Conversation: Need Spud Report first prod 10-5-88 and possible WCR. Entity Action Report.

4. Highlights of Conversation: Will call back - Called back 10-14-88 8:40 AM gave me spud report. I mailed out Entity Action forms. Frank said he would mail them back ASAP.

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER: Permitted to be drilled as an Injector

7. UNIT AGREEMENT NAME: Tin Cup Mesa

2. NAME OF OPERATOR: Marathon Oil Company

8. FARM OR LEASE NAME: Tin Cup Mesa

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

9. WELL NO.: 5-26

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1375' FNL & 1635' FEL

RECEIVED
JAN 09 1989
DIVISION OF OIL, GAS & MINING

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 26, T38S, R25E

14. PERMIT NO.: 43-037-31368

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5101' KB

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) First Production			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above referenced well first produced on December 5, 1988, at 5:00 p.m. The well is producing oil and gas to the Tin Cup Mesa Facility. This was reported to Mr. Lynn Jackson BLM, Moab by Frank Krugh Marathon, Cody on December 6, 1988.

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, TKS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED RPMeeks TITLE Regulatory Coordinator DATE December 6, 1988

(This space for Federal or State office use)

APPROVED BY ACCEPTED TITLE Branch of Fluid Minerals Moab District DATE DEC 23 1988

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - DOGM FORM 6

RECEIVED
JAN 05 1989
DIVISION OF
OIL, GAS & MINING

OPERATOR MARATHON OIL COMPANY

ADDRESS P. O. Box 2690
Cody, WY 82414

OPERATOR CODE N-3490

PHONE NO. (307) 587-4961

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	2765	2765	43-037-31368	Tin Cup Mesa #5-26	SENW	26	38S	25E	San Juan	3/3/88	

COMMENTS: Coleman Rig #4 Spudded. On 3/21/88 drilling was suspended and the wellbore was secured. On September 25, 1988 the well was re-entered by Coleman Rig #4 and the well was placed on production.

COMMENTS:

COMMENTS:

COMMENTS:

COMMENTS:

ACTION CODES:
A - ESTABLISH NEW ENTITY FOR NEW WELL
B - ADD NEW WELL TO EXISTING ENTITY
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
E - OTHER (EXPLAIN IN COMMENTS SECTION)
(SEE INSTRUCTIONS)

Patricia T. Hall
SIGNATURE

Production Acctg Supv 12/29/88
TITLE DATE

Form 3160-4
(November 1983)
(formerly 9-330)

Subcom

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: Tin Cup Mesa

8. FARM OR LEASE NAME: Tin Cup Mesa

9. WELL NO.: 5-26

10. FIELD AND POOL, OR WILDCAT: Tin Cup Mesa

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 26, T38S, R25E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ]

2. NAME OF OPERATOR: Marathon Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2690, Cody, Wyoming 82414

RECEIVED
JAN 23 1989
DIVISION OF OIL, GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1375' FNL & 1635' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-037-31368	---	San Juan	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9/25/88	10/23/88	12/3/88	5111' KB 5097' GR	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5781'	5661'	---	0 →	5781'	N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Upper Ismay 5494'-5526'

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-CCL-CBL-VDL; LDT-CNL-CAL-GR; DLL-MSFL-CAL-GR-CP; DIL-SFL-SP-GR-CAL

27. WAS WELL CORED: N/A

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	40#	2250'	12-1/4"	1220 sacks to surface	None
7"	26#	5360'	8-1/2"	1040 sacks to 2210'	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5"	5014' KB	5780' KB	145 sacks	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5340'	5363'

31. PERFORATION RECORD (Interval, size and number)
5494'-5506' 4 SPF
5512'-5526'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5494'-5526'	Washed perfs w/200 gals/ft of 15% HCL containing additives.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
12/5/88	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/16/88	24	23/64		257	295	23	1148

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
290 psi	N/A		257	295	23	45

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Processed and sold from Tin Cup Mesa Gas Facility

TEST WITNESSED BY: Field Foreman

35. LIST OF ATTACHMENTS: Attachment #1 (Deviation Survey) Attachment #2 (Drill Stem Test)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED R P Mealer TITLE Regulatory Coordinator DATE 1/20/89

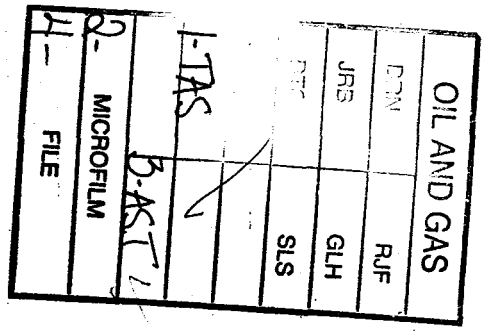
*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Upper Ismay	5426'	5576'	Oil & Gas

BLM-Orig & 2-cc: SUDOGM-2, WRF, FMK, TKS, GBP, Title & Contract (Houston)



38. GEOLOGIC MARKERS

KB Datum 5111'

NAME	TOP MEAS. DEPTH	TOP ~~TRUE VERT. DEPTH~~
Skinarump	2378'	2733'
Moenkopi	2424'	2687'
Cutler	2460'	2651'
Honaker Trail	4344'	767'
Paradox	5274'	- 163'
Upper Ismay	5426'	- 315'
Hovenweep	5576'	- 465'
Lower Ismay	5606'	- 495'
Gothic	5670'	- 559'
Desert Creek	5690'	- 579'

Deviation Survey

Depth	Angle	Direction
100′	1/2°	
338′	1/4°	
604′	1/2°	
1120′	1/4°	
1607	1/2°	
2629′	1°	
3388′	1/4°	
3881′	3/4°	
4410′	1/2°	
4935′	1/2°	
Plugged back to 2250′		
2269′	3/4°	N56°W
2361′	2°	N84°E
2391′	3-1/2°	N67°E
2461′	5-1/4°	S66°E
2554′	7-1/2°	S66°E
2614′	7-3/4°	S65°E
2720′	6-3/4°	S65°E
2840′	5-1/2°	S64°E
2966′	4-1/2°	S58°E
3108′	3-3/4°	S57°E
3213′	3-1/4°	
3306′	3°	
3609′	1-3/4°	
3887′	1-1/2°	
4167′	1-1/2°	
4473′	1°	
3537′	1-3/4°	S89°E
3998′	1-1/2°	N67°E
4512′	1°	N67°E
4865′	3/4°	N53°E
5328′	1/4°	N32°E
5439′	1/4°	
5595′	1/4°	
5752′	1/2°	

Attachment '1'

DRILL STEM TEST

DST #1

Formation: Lower Paradox

Top Packer: 5354'

Lower Packer: 5455'

Cushion: 1000# N_2 followed by 1000 ft. of H_2O.

Top Choke: 1/4

Bottom Choke: 3/8

Test was reverse circulated.

IF 5 min., ISI 60 min., FF 75 min., FSI 240 min.

Upper Gauge		Lower Gauge	
IH	4831.5	IH	5210
IF	2220.3-2265.2	IF	2276.7-2367.4
ISI	2624.8	ISI	2730.2
FF	1633.5-1135.8	FF	1596.4-1279.0
FSI	1588.3	FSI	1687.1
FH	4809.0	FH	4984.4

Sample Chamber
100 PSIG Surface
800 CC mud
Temperature 128°F

This well was originally spudded on March 3, 1988. Due to formation overpressure and a lost fish, the well was plugged back to 2200' and evaluations of the hole were made. On September 25, 1988, the well was re-entered, the hole was sidetracked and drilled to TD. The well was originally permitted as an injection well however favorable oil shows prompted the well to be produced. Presently the well is producing with the injection permit being kept valid.

Attachment '2'

page 1 of 2

WORKSHEET

Operator: Marathon Well Name: Tin Cup Mesa 5-24

Contractor: Coleman Rig 4 Rig Number: 4

Meas Depth ft	Inclination Drift Deg.	Total Departure Ft.
100	1/2	.87
338	1/4	1.91
604	1/2	4.23
1120	1/4	6.48
1607	1/2	10.73
2269	3/4	19.40
2361	2°	22.61
2391	3 1/2	24.44
2461	5 1/4	30.85
2554	7 1/2	42.99
2614	7 3/4	51.08
2720	6 3/4	63.54
2840	5 1/2	75.04
2966	4 1/2	84.92
3108	3 3/4	94.21
3213	3 1/4	100.16
3306	3	105.03
3609	1 3/4	114.28
3887	1 1/2	121.56
4167	1 1/2	128.89
4473	1°	134.23
4865	3/4	139.36
5328	1/4	141.38
5439	1/4	141.87

5595 1/4 142.55

5752 1/2 143.92

~~3/4~~ 8/28/89

DIRECTIONAL SURVEY RECORD
WORKSHEET

Operator: Marathon Well Name: Tin Cup Mesa 5-26 Page 2 of 2 8/28/89

Contractor: Coleman Rig Number: 4

Meas Depth ft	Inclination Drift deg	Bore Hole Bearing deg	Dog leg Severity deg/100'	TVD ft	North/South Departure ft	East/West Departure ft	Closure Direction deg	Closure Distance ft	Vertical Section ft	Station to Trgt Plane ft
2269	3/4	N56°W			5.41	5.00				
2361	2°	N84°E	2.85	2360.97	N7.05	W4.59	N33.1W	8.41		
2391	3 1/2	N67E	5.64	2390.94	N7.41	W3.20	N23.4W	8.07		
2461	5 1/4	S66E	5.48	2460.73	N7.37	E1.99	N15.1E	7.63		
2554	7 1/2	S66E	2.42	2553.15	N3.17	E11.42	N74.5E	11.85		
2614	7 3/4	S65E	0.47	2612.62	S0.14	E18.67	S89.6E	18.67		
2720	6 3/4	S65E	0.94	2717.78	S5.79	E30.79	S79.4E	31.33		
2840	5 1/2	S64E	1.05	2837.09	S11.30	E42.35	S75.1E	43.83		
2966	4 1/2	S58E	0.89	2962.61	S16.62	E51.95	S72.3E	54.54		
3108	3 3/4	S57E	0.53	3104.24	S22.11	E60.56	S69.9E	64.47		
3537	1 3/4	S89E	0.57	3532.72	S28.05	E79.99	S70.7E	84.77		
3998	1 1/2	N67E	0.16	3993.54	S25.57	E92.73	S74.6E	96.19		
4512	1	N67E	0.10	4507.42	S21.19	E103.05	S78.4E	105.21		
4865	3/4	N53E	0.09	4860.37	S18.50	E107.71	S80.3E	109.29		
5328	1/4	N32E	0.11	5323.36	S15.54	E110.42	S82.0E	111.51		

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
MAY 21 1990
DIVISION OF
OIL, GAS & MINING

5. Lease Designation and Serial No.
U-31928

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Tin Cup Mesa

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Tin Cup Mesa

2. Name of Operator
Marathon Oil Company

9. API Well No.
43-037-31368 5-26 mcj

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1375' FNL & 1635' FEL, Section 26, T38S, R25E

11. County or Parish, State
San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☒ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other See Below	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

OIL AND GAS

DRN	RJF
1- JRB ✓	GLH
DTS	SLS

2-TAS ✓
3. MICROFILM ✓
4. FILE

Marathon Oil Company requests approval to perform the following work in association with a water shut-off treatment. Steps #1 through #8 were verbally approved by Lynn Jackson, BLM Moab, on May 2, 1990 during a telephone conversation with Frank Krugh of Marathon.

BLM-Orig & 2--cc: SUDOGM-2, WRF, FMK, SPO, WTR-5, Title & Contract(Hous.)

14. I hereby certify that the foregoing is true and correct

Signed R P Mealer Title Regulatory Coordinator Date May 3, 1990

(This space for Federal or State office use)

Approved by William C. Stringer Title Assistant District Manager for Minerals Date 5/10/90
Conditions of approval, if any:

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 5-30-90
BY: John R. Baza

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Tin Cup Mesa #5-26
San Juan County, Utah
Pump Test, Water Shut-off, and Recompletion Procedure
AFE #5-505-0

WELL DATA

Elevations: GL: 5,097' KB: 5,111'

Depth (KB): TD: 5,781' PBTD: 5,661'

Casing Record (KB):

Surface	9-5/8", 40#, N-80 set at 2,250' with 1,220 sks.
Production	7", 26#, N-80 set at 5,360' with 1,040 sks.
Liner	5", 18#, P-110 set from 5,014-5,780' with 145 sks.

Tubing (KB): 2-7/8", 6.5#, N-80 EUE tubing.
Bottom of mud anchor at 5542.55'.

Perforation Record (KB): Upper Ismay
5,494-5,506' 4JSPF
5,512-5,526' 4JSPF

Proposed Perforations (KB): Upper Ismay
5,478-5,494' 4JSPF

PROCEDURE SUMMARY

The existing Upper Ismay interval perforations will be pump tested individually. Based on the results of the pump test, one or both of these perforation intervals will be cement squeezed to shut off associated water. An additional 16' of Upper Ismay pay from 5,478'-5,494' KB will be perforated and acidized. Any perforation interval left open following the squeeze will be acidized. The well will then be hung on pump.

Because it is suspected that the lower perforation interval is the primary source of water production and is contributing insignificant oil production, this procedure provides for a cement squeeze of that interval only. If the pump test results indicate that either the upper interval or both perforation intervals should be abandoned, then a separate cement squeeze procedure will be prepared.

PROCEDURE

1. Obtain a three-day production test and a water sample analysis (including percent fines) for this well immediately prior to Step No. 2. Take fluid shots for each test day.

2. Haul three 400 Bbl. frac tanks to location and fill two tanks with Ismay produced water. MIRU completion rig.

3. Unseat pump. IF NECESSARY, pump 80 bbls. Ismay water down backside to kill well and then hot oil (± 230° F) down casing with ± 35 bbls. and then down tubing with ± 35 bbls. Ismay oil.

4. NU 3,000# BOPE.

5. POOH with rods and pump. Release tubing anchor (set in 17,000# tension) and POOH with the tubing and anchor. Redress tubing anchor.

6. PU 6-1/8" bit and a scraper dressed for 7", 26# casing. Round trip bit and scraper to 5,014' KB (top of the 5" liner). LD bit and scraper.

7. PU 4-1/8" bit and a scraper dressed for 5", 18# casing. Round trip bit and scraper to PBTD. LD bit and scraper.

8. Rig up wireline company. PU Baker 5"-1BB Model 'K' Cement Retainer and Baker Model No. 20 setting tool and RIH on wireline. Correlate depth with Schlumberger CBL-GR run on 11/17/88. Set middle of cement retainer packing elements at 5,509' KB. Tag cement retainer top with setting tool to verify setting depth. POOH with setting tool and wireline. RD wireline company.

9. PU and RIH Baker cement retainer stinger, 2-7/8" SN, 18 jts. 2-7/8" N-80 tubing, and redressed Baker 7" tubing anchor. Run this assembly in the hole on 2-7/8" N-80 tubing and sting into retainer. Slackoff 10,000# tubing weight on cement retainer. Fill tubing with Ismay produced water and establish circulation through the retainer by pumping 2-3 Bbls. at no more than 2,200 psi applied surface pressure and 1/2 to 1 BPM. ND BOPE. Set tubing anchor in 15,000# tension.

10. Hang tubing in wellhead. RIH with 2-1/2" x 2" x 24' RHBC rod pump and rods pulled earlier. Shoot static fluid level and then hang well on pump. RD and release completion rig. Put the well on test immediately and continue testing until sufficient data is obtained to procede with Step No. 11 (approximately one week). Connect a NABLA dynamometer to the well each day (the data will be input into the WAVE software program to get an estimate of the producing fluid level from the downhole card). Monitor backside fluid level. Obtain a water sample for analysis prior to proceeding to the next step.

11. MIRU completion rig. POOH with rods and pump. NU BOPE. Release tubing anchor. Unsting from cement retainer and POOH and LD one jt. of 2-7/8" N-80 tubing. ND BOPE. Reset tubing anchor in 15,000# tension.

12. Hang tubing in wellhead. RIH with rod pump and rods previously pulled. Shoot static fluid level and then hang well on pump. Put the well on test immediately and continue testing until sufficient data is obtained to proceed with Step No. 13 (approximately one week). Shoot fluid levels frequently to keep the well in a pumped off condition. Obtain a water sample for analysis prior to proceeding to the next step.

13. MIRU completion rig. IF NECESSARY, pump 80 bbls. Ismay water down backside to kill well

14. POOH with rods and pump. Release tubing anchor (set in 15,000#

tension). NU 3,000# BOPE. POOH with tubing, tubing anchor, SN, and cement retainer stinger. LD seating nipple and anchor. Redress tubing anchor, if necessary.

15. If pump test results indicate that the lower interval (5,512-5,526'KB) is the primary source of water production and contributing insignificant oil production, proceed as follows: (If the upper interval (5,494-5,506'KB) or both Upper Ismay perf intervals are commercially unproductive, a separate cement squeeze procedure will be prepared).

    a) PU cement retainer stinger and RIH on tubing. Sting into cement retainer (top of retainer at 5,508.5' KB).

    b) Rig up cement service company (have cement service company haul 10 Bbls. fresh water to location).

    c) With cement retainer packing elements still set at 5,509' KB, establish rate at less than 2,200 psi surface pressure with a full water column. Sting out of retainer. Roll hole to remove any oil and produced water by pumping 250 Bbls. Ismay produced water down tubing and up the annulus to an empty frac tank.

    d) Pump 5 Bbls. fresh water spacer down tubing. Mix and pump 50 sks. Class "G" cement with 2% $CaCl_2$ (with additives to obtain a 4 hour pump time and 150-300 cc fluid loss at static BHT of 138° F). Displace cement to within 3 bbls. of end of tubing with a 5 Bbl. fresh water spacer and 24 Bbls. Ismay water.

    e) Sting into retainer and pump 3.5 bbls. to displace cement across perforations. Attempt to pump an additional 6 Bbls. Ismay water but, to prevent fracturing the formation, do not exceed 1,200 psi and 1/2 BPM at the surface. Shut down for 15 minutes once the 6 Bbls. have been pumped or the maximum 1,200 psi surface pressure has been reached. Begin hesitation squeeze by pumping an additional 1/2 to 1 Bbl. and then shutting down for 15 minutes (recording the pressure at which the cement was pumped and the final pressure at the end of the 15 minutes).

    f) Repeat hesitation squeeze by pumping 1/2 Bbl. increments until only 1 Bbl. of cement remains in the tubing or 300 psi over the final injection pressure is reached and held for 15 minutes. Note: 1,200 psi is the maximum pressure at which the cement is to be pumped, with 1,500 psi being the maximum squeeze pressure. It is perfectly acceptable to pump the cement at a much lower rate and pressure, with the squeeze pressure being 300 psi above the final injection pressure.

    g) While holding the final sqeeze pressure on the tubing, unsting from the retainer and PUH 7 feet (the stinger will be out of the retainer and the remaining cement will be dumped when the tubing pressure begins to drop). Reverse circulate tubing clean with two tubing volumes (65 Bbls.) Ismay water at 1 BPM. This should

leave only about 2 feet of cement on top of the cement retainer. RD cement service company.

16. POOH with tubing and stinger. WOC overnight.

17. PU and TIH with 4-1/8" rock bit and 4 (2-7/8" O.D.) drill collars to drill out cement retainer and cement. RU power swivel and circulation equipment. Drill out cement retainer and cement. RIH and tag PBTD (record depth where tagged). RIH to 5,661' KB, cleaning out fill as necessary. POOH with tubing, drill collars, and bit. Round trip 5" casing scraper.

18. PU and RIH Baker 5" 43 B Model EA Retrievamatic packer, SN, and 2-7/8" tubing. Swab test squeezed perfs. Move and reset packer as necessary to swab test open perfs to check productivity. POOH with packer.

19. RIH and perforate the Upper Ismay from 5,478'-5,506' KB with 3-3/8" casing guns loaded for 90° phasing, 4 JSPF, and 16 gram charges. POOH with guns and RD wireline company.

20. PU mechanical CCL, 5" Service Adaptable Packer (SAP) dressed for one foot spacing between packing elements, and mechanical Injection Control Valve (ICV). Drop mandrel plug into packer and set ICV in the neutral position (allows fluid to enter tubing while RIH). Run this assembly in hole on 2-7/8" tubing and place the center of packing elements in blank casing at 5,470' KB (use mechanical CCL to get on depth). Do not set packer.

21. Rig up service company. Test surface lines to 3,200 psi. Acidize the Upper Ismay perfs in 1 ft. increments as follows:

    a) Pickle the tubing by pumping 2 bbls. 15% Fe HCl PAD acid down the tubing, followed by 32 bbls. Ismay water. Reverse tubing with 40 bbls. Ismay water.

    b) Set packer and pressure test between packing elements to 2,200 psi. Bleed off pressure and release packer. Close ICV and pressure test tubing to 200 psi to ensure valve is closing properly.

    c) Move the middle of the SAP packing elements downhole to the bottom perf at 5,506' KB. Spot 1,500 gals of 15% Fe HCl PAD acid (containing iron sequestering agents, corrosion inhibitors, and non-emulsifiers) to within two bbls. of the SAP tool.

    d) Acidize the perfs from 5,494'-5,506' KB with 650 gals acid and the perfs from 5,478'-5,494' KB with 850 gals acid (1,500 total gals acid) in 50 gal/ft. increments at a maximum pressure of 2,200 psi and maximum rate of 1/2 BPM. Leave the backside open to check for communication. If communication occurs, shut-in the backside immediately to force the acid into the formation.

(Note the rate, pressure, and whether or not communication occurs on each set).

e) Overdisplace the annulus with 25 bbls. Ismay water after the last set of perfs have been acidized.

Note: All personnel are to wear safety goggles during all acidizing activities.

22. Move down hole to 5,530' KB and reverse circulate 32 bbls. Ismay water to ensure that acid is not left across the squeezed perforations. Reset the packer at ±5,530' KB. Pressure test the packer, valves and tubing to the maximum treating pressure to ensure that everything had been working properly. Release the packer.

23. PUH and reset at ±5,460' KB. RU swab equipment. Swab back load fluid until samples are clean and pH has returned to 5.5-6.0. Record fluid levels, cumulative recoveries and cuts hourly.

24. POOH with SAP assembly. RIH with production equipment, setting pump at least 30 feet below the bottom of the perfs. Shoot static fluid level before placing well back on pump.

25. RD completion rig.

KDW/sp

APPROVALS:

_____ _____

_____ _____

_____ _____

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

5. Lease Designation and Serial No.
U-31928

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
JUL 05 1990
DIVISION OF
OIL, GAS & MINING

7. If Unit or CA, Agreement Designation
Tin Cup Mesa

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Tin Cup Mesa #5-26

2. Name of Operator
Marathon Oil Company

9. API Well No.
43-037-31368

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1375' FNL & 1635' FEL, Section 26, T38S, R25E

11. County or Parish, State
San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☒ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☒ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Marathon Oil Company requests approval to perform a water shut-off and to recomplete the Ismay formation in this well by following the attached procedure.

OIL AND GAS
RJF
GLH
SLS

BLM-Orig & 3--cc: SUDOGM-2, WRF, FMK, SPO, WTR-5, Title & Contract(Hobbs)

14. I hereby certify that the foregoing is true and correct

Signed R P Mahan Title Regulatory Coordinator Date June 8, 1990

(This space for Federal or State office use)

Approved by William C. Stringer Title Assistant District Manager Minerals Date 7/25/90

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7-16-90
BY: John R. Baza

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Tin Cup Mesa #5-26
San Juan County, Utah
Recompletion and Water Shut-off Procedure
AFE #5-505-0

WELL DATA

Elevations: GL: 5,097' KB: 5,111'

Depth (KB): TD: 5,781' PBTD: 5,661'

Casing Record (KB):
Surface 9-5/8", 40#, N-80 set at 2,250' with 1,220 sks.
Production 7", 26#, N-80 set at 5,360' with 1,040 sks.
Liner 5", 18#, P-110 set from 5,014-5,780' with 145 sks.

Tubing (KB): 2-7/8", 6.5#, N-80 EUE tubing.
Bottom of mud anchor at 5542.55'.

Perforation Record (KB): Upper Ismay
5,494-5,506' 4JSPF
5,512-5,526' 4JSPF

Proposed Perforations (KB): Upper Ismay
5,478-5,494' 4JSPF

REVISED PROCEDURE

1. Haul 3-400 Bbl. frac tanks to location. Fill two tanks with Ismay produced water.

2. MIRU completion rig. Haul rig pump, power swivel, flat tank to location.

3. POOH with rods and pump. Send pump in for inspection. NU 3,000# BOPE. RU circulation equipment. Attempt to establish circulation down tubing (should establish circulation after pumping about 7 bbls. Ismay water). Pump about 20 bbls. Ismay water down tubing, noting rate, pressure, and fluid cut. Release tubing anchor (set in 5,000# tension) and set 10,000# tubing weight on retainer. Pump down tubing at the same rate as above, noting pressure. Drop SV and RU circulation equipment. Pressure test tubing to 2,200 psi. Fish SV with sandline.

4. Sting out of retainer. Pump down tubing at same rate as above, noting pressure. Role hole by circulating 200 Bbls. Ismay produced water down tubing and up the annulus to empty frac tank. POOH with tubing, tubing anchor, SN, and cement retainer stinger. LD and redress anchor catcher. LD SN.

5. Cement the Upper Ismay perforations (5,512'-5,526' KB) as follows:

   a) PU cement retainer stinger and RIH on tubing. Sting into cement retainer (top of retainer at 5,508' KB).

   b) Rig up cement service company. Test surface lines to 3,200 psi Have water truck on location with 80 Bbls. fresh water.

   c) With cement retainer packing elements still set at 5,509' KB, establish rate at less than 2,200 psi surface pressure with a

full water column. Sting out of retainer.

d) Pump 5 Bbls. fresh water down tubing. Mix and pump 75 sks. Class "G" cement (with additives to obtain a 4 hour pump time and 150-300 cc fluid loss at static BHT of 138 degrees F). Displace to within 3 bbls. of end of tubing with a 5 Bbl. fresh water spacer and 8.5 Bbls Ismay water.

e) Sting into retainer and pump 3.5 bbls. to displace cement across perforations. Attempt to pump an additional 6 Bbls. Ismay water but, to prevent fracturing the formation, do not exceed 875 psi and 1/2 BPM at the surface. Note: After pumping 5 of the 6 bbls, 1,200 psi is the maximum pressure at which the cement is to be pumped, with 1,500 psi being the maximum squeeze pressure. It is perfectly acceptable to pump the cement at a much lower rate and pressure, with the squeeze pressure being 300 psi above the final injection pressure. Shut down for 15 minutes once the 6 Bbls. have been pumped or the maximum 875 psi surface pressure has been reached. Begin hesitation squeeze by pumping an additional 1/2 to 1 Bbl. and then shutting down for 15 minutes (recording the pressure at which the cement was pumped and the final pressure at the end of the 15 minutes).

f) Repeat hesitation squeeze by pumping 1/2 Bbl. increments until only 1 Bbl. of cement remains in the tubing or 300 psi over the final injection pressure is reached and held for 15 minutes.

g) While holding the final squeeze pressure on the tubing, unsting from the retainer and PUH 2 feet (the stinger will be out of the retainer and the remaining cement will be dumped when the tubing pressure begins to drop). Note: If the volume of cement remaining in the tubing prior to dumping the cement is less than 5.1 bbls (25 sks.), reverse circulate tubing clean with two tubing volumes (65 Bbls.) Ismay water at 1 BPM and proceed to Step No. 6. Otherwise, perform Step No. 5h and then proceed to Step No. 6e.

h) PUH a sufficient distance (ie. if 5.1 bbls. to be dumped, then pull up to 5,240' KB) and reverse circulate two tubing volumes. Hesitation squeeze the Upper Ismay perfs (5,494'-5,506' KB) to a maximum squeeze pressure of 1,500 psi, but do not displace the cement top any lower than 5,474' KB. Proceed to Step No. 6e.

6. Cement squeeze the Upper Ismay perforations (5,494'-5,506' KB) as follows:

a) Pump 5 Bbls. fresh water down tubing. Mix and pump 75 sks. Class "G" cement (with additives to obtain a 4 hour pump time and 150-300 cc fluid loss at static BHT of 138 degrees F). With the bottom of the stinger still at about 5506' KB, balance a cement plug by displacing with a 5 Bbl. fresh water spacer and 22.5 Bbls. Ismay water. The top of the cement both in the tubing and the annulus will be at 4848' KB at this point (above the liner top at 5,104' KB).

b) PUH to 4,880' KB (cement top after PUH will be 4,887' KB) and reverse circulate tubing clean with two tubing volumes (57 Bbls.) Ismay water at 1 BPM.

c) Attempt to pump 11 Bbls. Ismay water but, to prevent fracturing the formation, do not exceed 1,200 psi and 1/2 BPM at the surface. Shut down for 15 minutes once the 11 Bbls. have been pumped or the maximum 1,200 psi surface pressure has been reached. Begin hesitation squeeze by pumping an additional 1/2 to 1 Bbl. and then

shutting down for 15 minutes (recording the pressure at which the cement was pumped and the final pressure at the end of the 15 minutes).

d) Repeat hesitation squeeze by pumping 1/2 Bbl. increments until a total of 14.8 Bbls. of water (leaves 20' of cement over the top perf located at 5,494' KB) have been pumped or 300 psi over the final injection pressure is reached and held for 15 minutes. Note: 1,200 psi is the maximum pressure at which the cement is to be pumped, with 1,500 psi being the maximum squeeze pressure. It is perfectly acceptable to pump the cement at a much lower rate and pressure, with the squeeze pressure being 300 psi above the final injection pressure.

e) POOH with tubing and stinger. WOC overnight.

7. PU and TIH with a 4-1/8" rock bit and 4 (3-1/8" O.D.) drill collars to drill out cement and cement retainer. RU power swivel and circulation equipment. Drill out cement retainer and cement with 6,000# WOB. Close casing valves and BOP pipe rams. Pressure test squeezed perfs to 1,000 psi for 15 minutes. Release pressure. RIH and tag PBTD (record depth where tagged). RIH to 5,661' KB, cleaning out fill as necessary. POOH with tubing, drill collars, and bit. Round trip 7" and 5" casing scrapers.

8. PU and RIH Baker 5" 43B Model EA Retrievamatic packer, SN, and 2-7/8" tubing. Swab test squeezed perfs. POOH with packer.

9. Proceed with Steps 19-23 of AFE procedure, but perforate and acidize only the interval from 5,494'-5,506' KB.

10. If the swab test data indicates that the oil cut is insufficient to justify continued production of the perfed interval or the total fluid rate exceeds the capabilities of the current equipment, then call the Cody office for orders. Otherwise proceed to the next step after contacting Cody.

11. POOH with SAP packer assembly. RU wireline company. RIH and perforate the Upper Ismay from 5,478'-5,494' KB with 3-3/8" casing guns loaded for 90 degree phasing, 4 JSPF, and 16 gram charges. POOH with guns and RD wireline company.

12. RIH with SAP packer set for 1' spacing and dressed for 5" casing. RU service company. Test surface lines to 3,200 psi. Pickle the tubing with 2 Bbls. 15% Fe HCL PAD acid. Acidize the Upper Ismay perfs from 5,478'-5,494' KB with 50 gal/ft 15% Fe HCL PAD acid at a maximum pressure of 2,200 psi and a maximum rate of 1/2 BPM. Proceed with Steps 21e-25 of the AFE procedure.

APPROVALS:

K.D. Walsh 6/7/90 _____

S.W. Jennings 6/7/90 _____

_____ 6/7/90

Marathon Oil Company
Well No. Tin Cup Mesa 5-26
SWNE Sec. 26, T. 38 S., R. 25 E.
San Juan County, Utah
U-31928

CONDITIONS OF APPROVAL

1. Notify Mike Wade of the Bureau of Land Management, San Juan Resource Area Office in Monticello at (801) 587-2141, at least 24 hours prior to commencing operations.

2. Submit a recompletion report (Form 3160-4) within 30 days of finishing the project.

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

RECEIVED
AUG 09 1990
DIVISION OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U-31928

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Tin Cup Mesa

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
Tin Cup Mesa #5-26

2. Name of Operator
Marathon Oil Company

9. API Well No.
43-037-31368

3. Address and Telephone No.
P. O. Box 2690, Cody, Wyoming 82414 (307) 587-4961

10. Field and Pool, or Exploratory Area
Tin Cup Mesa

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1375' FNL & 1635' FEL, Sec. 26, T38S, R25E

11. County or Parish, State
San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[X] Recompletion ✓	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[✓] Non-Routine Fracturing
	[ ] Casing Repair	[X] Water Shut-Off ✓
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Marathon has completed the following work:

1990
6/9 Set cement retainer at 5509' KB and pumped 150 sacks of Class 'G' cement.
6/13 Drilled out cement and pumped an additional 50 sacks of Class 'G' cement.
6/16 Drilled out cement and perforated the Upper Ismay from 5494'-5506' with 4 JSPF.
6/17 Acidized same with 650 gallons of 15% FeHCL and swabbed for cleanup.
6/19 Perforated the Upper Ismay from 5478'-94' KB with 4 JSPF.
6/20 Acidized same with 850 gallons of 15% FeHCL.
6/21 Swabbed for cleanup.
6/22 Placed the well on production.

DIST: BLM-Orig. + 3, SUDOGM-2, WRF, FMK, Title & Contracts (Houston), WTR-5, SPO

14. I hereby certify that the foregoing is true and correct

Signed R.P. Mealor by FMK Title Regulatory Coordinator Date 7/27/90

(This space for Federal or State office use)

Approved by _____ Title Branch of Fluid Minerals Date JUL 30 1990
Conditions of approval, if any: Moab District

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

COPY

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
UT-922

January 12, 1996

Cochrane Resources, Inc.
P.O. Box 1656
Roosevelt, Utah 84066

RE: Tin Cup Mesa Unit
San Juan County, Utah

Gentlemen:

On January 11, 1996, we received an indenture dated January 9, 1996, whereby Marathon Oil Company resigned as Unit Operator and Cochrane Resources, Inc. was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 12, 1996. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0699 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure
bcc: District Manager - Moab (w/enclosure)
Division of Oil, Gas & Mining
Division of Mineral Adjudication U-923
File - Tin Cup Mesa Unit (w/enclosure)
MMS - Data Management Division ((Attn: Rose Dablo)
Agr. Sec. Chron
Fluid Chron
U-922:TAThompson:tt:01-12-96

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME		OPERATOR	Entity#
** INSPECTION ITEM 8910203910	31761	TIN CUP MESA IS A									
8910203910	4303758665000S1	1	SWNW	25	38S	25E	WDW	UTU31928		MARATHON OIL COMPANY	
8910203910	43037306900OS1	1-25	SWNW	25	38S	25E	WIW	UTU31928	2765	MARATHON OIL COMPANY	U31928
8910203910	4303730608000S1	2-23	SESW	23	38S	25E	POW	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	4303730983000S1	2-25	NWSW	25	38S	25E	POW	UTU13655	"	MARATHON OIL COMPANY	U13655
8910203910	4303730815000S1	3-23	SWSW	23	38S	25E	WIWSI	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	4303731020000S1	3-25	SESW	25	38S	25E	TA	UTU13655	"	MARATHON OIL COMPANY	U13655
8910203910	4303730762000S1	3-26	NWNE	26	38S	25E	WIW	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	4303731145000S1	4-25	SESW	25	38S	25E	WIW	UTU13655	"	MARATHON OIL COMPANY	UB655
8910203910	4303730941000S1	4-26	SENE	26	38S	25E	WIW	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	4303731368000S1	5-26	SWNE	26	38S	25E	POW	UTU31928	"	MARATHON OIL COMPANY	U31928
8910203910	4303731540000S1	6-26	NESE	26	38S	25E	POW	UTU31928	"	MARATHON OIL COMPANY	U31928

JAN 2 3 1996

RESIGNATION OF OPERATOR

Tin Cup Mesa Unit Area

County of San Juan

State of Utah

Unit Agreement No. 14-08-0001-20391

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Tin Cup Mesa Unit Area, San Juan County, Utah, Marathon Oil Company, the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid this 29th day of November, 1995.

ATTEST:

Linda T. Stewart

MARATHON OIL COMPANY

A.R. Kukla

By: A.R. Kukla
Title: Attorney-In-Fact

APPROVED AS TO FORM TCL

TCL\MISCTCL\TCUP3\mlv

12-19-95

Authorized Officer
Bureau of Land Management

Re: Tin Cup Mesa Unit
San Juan County, Utah

Gentlemen:

Enclosed for your consideration and approval, are four (4) copies of Resignation of Unit Operator ~~and Designation of Successor Operator~~ for the Tin Cup Mesa Unit Area.

Cochrane Resources, as the designated successor operator under the Tin Cup Mesa Unit Agreement, hereby certifies that the requisite approvals of the current working interest owners in the agreement have been obtained to satisfy the requirements for selection of a successor operator as set forth under the terms and provisions of the agreement. All operations within the Tin Cup Mesa Unit Agreement will be covered by bond no. UT0699.

Sincerely,

Ken Allen
Cochrane Resources, Inc.
President

Enclosures

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:
1-LEC 7-FILM
2-DTS 8-FILE
3-VLD
4-RJF
5-LRC
6-SJ

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

[XX] Change of Operator (well sold) [ ] Designation of Agent
[ ] Designation of Operator [ ] Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: **12-01-95**)

TO (new operator)	**COCHRANE RESOURCES INC**
(address)	**PO BOX 1656**
	ROOSEVELT UT 84066
phone	**(801) 722-5081**
account no.	**N 7015**

FROM (former operator)	**MARATHON OIL COMPANY**
(address)	**PO BOX 552**
	MIDLAND TX 79702
phone	**(915) 687-8155**
account no.	**N 3490**

***TIN CUP MESA UNIT**

Well(s) (attach additional page if needed):

Name: ****SEE ATTACHED****	API: 037-31368	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Req. 1-19-96) (Rec'd 1-23-96)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Req. 1-22-96) (Rec'd 1-23-96)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

Lec 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-8-96 O&G Wells) (Inj. Wells 4-3-96)

Lec 6. Cardex file has been updated for each well listed above. (2-8-96 O&G Wells) (Inj. Wells 4-3-96)

Lec 7. Well file labels have been updated for each well listed above. (2-8-96 O&G Wells) (Inj. Wells 4-3-96)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (2-8-96 O&G Wells) (Inj. Wells 4-3-96)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

N/A/Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DTS 4/8/96

N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

KDR 1. All attachments to this form have been microfilmed. Date: April 17 1996.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

960119 Blm/SL Aprv. eff. 1-12-96.

WE71/34-35

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **4/1/2008**

FROM: (Old Operator):	**TO:** (New Operator):
N7015-Cochrane Resources, Inc	N8195-Mar/Reg Oil Company
PO Box 1656	PO Box 18148
Roosevelt, UT 84066	Reno, NV 89511
Phone: 1 (435-722-5081	Phone: 1 (775) 852-7444

CA No. **Unit:** **TIN CUP MESA**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/4/2008
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/3/2008
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/23/2008
4a. Is the new operator registered in the State of Utah: Business Number: 1267088-0143
4b. If **NO**, the operator was contacted contacted on:
5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
5b. Inspections of LA PA state/fee well sites complete on:
5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 5/28/2008 BIA
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: 5/28/2008
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/2/2008

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 7/1/2008
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 7/1/2008
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000019
2. Indian well(s) covered by Bond Number: n/a
3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: SEE ATTACHED	
1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER	8. WELL NAME and NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015	9. API NUMBER:
3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP ~~84066~~ 84066	PHONE NUMBER: (435) 722-5081
10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA	
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A"	COUNTY: SAN JUAN
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: CHANGE OF OPERATOR
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The successor Operator for this well will be:
Mar/Reg Oil Company N8195
PO Box 18148
Reno, NV 89511
(775) 852-7444

Agreed and accepted this 2nd day of June 2008
effective April 1, 2008

Mar/Reg Oil Company

By: Rhonda Ahmad
Rhonda Ahmad
President
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN TITLE PRESIDENT

SIGNATURE _____ DATE _____

(This space for State use only)

APPROVED 7/1/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUN 03 2008
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: SEE ATTACHED

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: SEE ATTACHED

2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015

9. API NUMBER:

3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP ~~84606~~ 84066

PHONE NUMBER: (435) 722-5081

10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA

4. LOCATION OF WELL

FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A"

COUNTY: SAN JUAN

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: CHANGE OF OPERATOR
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The successor Operator for this well will be:
Mar/Reg Oil Company
PO Box 18148
Reno, NV 89511
(775) 852-7444

Agreed and accepted this 3rd day of June 2008

Mar/Reg Oil Company

By: _____
Rhonda Ahmad
President
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN TITLE PRESIDENT

SIGNATURE _____ DATE 6-3-2008.

(This space for State use only)

APPROVED 7/1/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

(5/2000)

RECEIVED
JUN 04 2008
DIV. OF OIL, GAS & MINING

Exhibit A Well List

Tin Cup Mesa Unit Field

API#	Lease Type	Well Name	Well Type	County	Location	Utah Entity #
43-037-30690	Federal	TIN CUP MESA 1-25	Water Injection Well	SAN JUAN	25 SWNW T38S R25E	2765
43-037-30762	Federal	TIN CUP MESA 3-26	Oil Well	SAN JUAN	26 NWNE T38S R25E	2765
43-037-30808	Federal	TIN CUP MESA 2-23	Oil Well	SAN JUAN	23 SESW T38S R25E	2765
43-037-30815	Federal	TIN CUP MESA 3-23	Oil Well	SAN JUAN	23 SWSW T38S R25E	2765
43-037-30941	Federal	TIN CUP MESA 4-26	Oil Well	SAN JUAN	26 SENE T38S R25E	2765
43-037-30983	Federal	TIN CUP MESA 2-25	Oil Well	SAN JUAN	25 NWSW T38S R25E	2765
43-037-31020	Federal	TIN CUP MESA 3-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31145	Federal	TIN CUP MESA 4-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31368	Federal	TIN CUP MESA 5-26	Oil Well	SAN JUAN	26 SWNE T38S R25E	2765
43-037-31540	Federal	TIN CUP MESA 6-26	Oil Well	SAN JUAN	26 NESE T38S R25E	2765
43-037-31761	Federal	WDW 1	Water Disposal Well	SAN JUAN	25 SWNW T38S R25E	

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov/ut/st/en.html

IN REPLY REFER TO
3180
UT-922

May 28, 2008

Mar/Reg Oil Company
P. O. Box 18148
Reno, Nevada 89511

Re: Tin Cup Mesa Unit
San Juan County, Utah

Dear Ms. Ahmad:

On May 23, 2008, we received an indenture dated May 7, 2008, whereby Cochrane Resources, Inc. resigned as Unit Operator and Mar/Reg Oil Company was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective May 28, 2008. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide oil and gas bond no. UTB000019 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate agencies, with one copy returned herewith.

Sincerely,

/s/ Becky J. Hammond

Becky J. Hammond
Chief, Branch of Fluid Minerals

Enclosure

Form 31
(August 2007)

DOGM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.: U-31928

6. If Indian, Allottee or Tribe Name:

7. If Unit of CA/Agreement, Name and/or No.: Tin Cup Mesa

Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.: Tin Cup Mesa ~~Federal~~ 5-26

Name of Operator
MAR/REG OIL COMPANY

9. API Well No.: 43-037-31368

a. Address
PO Box 18148, Reno, NV 89511

3b. Phone No. *(include area code)*
775-852-7444

10. Field and Pool or Exploratory Area: Tin Cup Mesa

Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
1375 ft FNL, 1635 ft. FEL, Sec. 26 T38S, R25E, SLM

11. Country or Parish, State: San Juan, Utah

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Raise Pump
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

June 24, 2008 MIRU, unseated pump, pumped 50 bbl. hot oil/water down tubing to disolve paraffin. Pulled rods and pump. Pulled 52 joints of 2-7/8" tubing and laid down. Set Seating Nipple at 3244.86 ft.

June 25, 2008 RIH 2-1/2"x2"x20' RWBC pump, 120-3/4" rods, 8-7/8" rods, 1-1"x2' pony, 1-1"x4' pony, 1'1"x6' pony and 22' polished rod. Total rod configuration: 3,254 ft.

Moved rig off hole, left well shut-in awaiting fuel gas to put well into production.

RECEIVED
JUL 08 2008
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Tariq Ahmad

Title Petroleum Engineer

Signature

Date 07/02/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.: U-31928

6. If Indian, Allottee or Tribe Name:

7. If Unit of CA/Agreement, Name and/or No.: Tin Cup Mesa

1. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.: Tin Cup Mesa 5-26

2. Name of Operator: MAR/REG OIL COMPANY

9. API Well No.: 43-037-31368

3a. Address: PO Box 18148, Reno, NV 89511

3b. Phone No. *(include area code)*: 775-852-7444

10. Field and Pool or Exploratory Area: Tin Cup Mesa

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: 1375 ft FNL, 1635 ft. FEL, Sec. 26 T38S, R25E, SLM

11. Country or Parish, State: San Juan, Utah

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Repair Broken Rod
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Broken Sucker Rod

Action Taken:

March 31, 2009 MIRU, ran in with double overshot. Secured rod string. Sixth rod parted. Unseated pump, pumped 50 bbl. hot water down tubing to dissolve paraffin. Replaced broken rod with 7/8" rod. Set Seating Nipple at 4,858 ft.

From previous workover:

Pump 2-1/2"x2"x20' RWBC pump, 120-3/4" rods, 72-7/8" rods, 1-1"x2' sub, 1-1"x6' sub, 1-1"x8' sub and 22' polished rod. Total rod configuration: 4,858 ft.

Placed well into production.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*: DAN GREEN

Title: ENGINEER

Signature: Dan Green

Date: 05/07/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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(Instructions on page 2)

RECEIVED

MAY 12 2009

DIV. OF OIL, GAS & MINING

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.: U-31928

6. If Indian, Allottee or Tribe Name:

7. If Unit of CA/Agreement, Name and/or No.: Tin Cup Mesa

1. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.: Federal 5-26

2. Name of Operator: MAR/REG OIL COMPANY

9. API Well No.: 43-037-31368

3a. Address: PO Box 18148, Reno, NV 89511

3b. Phone No. *(include area code)*: 775-852-7444

10. Field and Pool or Exploratory Area: Tin Cup Mesa

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: 1375 ft FNL, 1635 ft. FEL, Sec. 26, T38S, R25E, SLM

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☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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Acidized Well:

Sept 23, 2009 RU Acid truck. Pump 55 gal of 54GO down csg. Pump 10 bbl of production water for spacer. Pump 700 gal 20% HCl acid down csg.
Pump rate: 2-3 bpm.
Pump 162 bbl of production water down csg for flush at a rate of 3 bpm.
Shut-in well.

Sept 24, 2009 Place well into production.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*: Dan Green

Title: Engineer

Signature: Dan F. Green

Date: 10/23/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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(Instructions on page 2)

RECEIVED
OCT 27 2009
DIV. OF OIL, GAS & MINING

STIMULATION REPORT

CUSTOMER:	MAR/REG OIL COMPANY
WELL NAME:	TIN CUP 5-26
LEGAL DESCRIPTION: SEC, TWP, RNG	SEC26,T38S,R25E
COUNTY, STATE:	SAN JUAN, UT
DATE:	9/23/2009
CUSTOMER REP:	DAN GREEN
SERVICE SUPERVISOR:	Williams, Dave
GPS COORDINATES:	0
FIELD INVOICE # :	71193

PACE ACIDIZING & CEMENTING

FORMATION	PERFORATIONS TOP	BOTTOM	# HOLES	HOLE SIZE
DESERT CREEK	5526			

CASING / TUBULARS	SIZE	WGT	GRADE		DEPTH
CASING	7	26			5360
LINER	SIZE	WGT	GRADE	TOP	DEPTH
TUBING	SIZE	WGT	GRADE	PKR Y/N	DEPTH
	2 7/8	6.5			4858

JOB TYPE, ACID SPOT, ACID, BD, FRAC, OTHER	TREAT VIA, CASING, TUBING
ACID JOB	TUBING

PROPOSED JOB SUMMARY

PROPOSED PROCEDURE SUMMARY	CALC CAPACITIES	bbl/ft	depth	bbl cap
FILL CASING;TREAT DOWN TUBING WITH 54-GO AND THEN PUMP 700 GALS OF 20% ACID	TUBING	0.00579	4973	
	CASING			162
	ANNULAR			

ACID TYPE	ACID %	ACID VOL	FRAC FLUID	BASE FLUID	FOAM %	MITCH or CIP
HCL	20%	700 GALS				

BALLSEALERS TYPE	SIZE	SP GR	# BALLS	PAD VOL (gal)	S/L Vol (gal)	MAX PROP (ppg)	PROP SIZE

MAX PRESSURE	TOT FRAC FLUID (gal)	TOTAL BASE (gal)	PROP TYPE	TOTAL PROP (lb)

ACTUAL JOB DETAILS

TIME	TREATING PRESSURE		SLURRY RATE BPM	SLURRY BBLS PUMPED STG	CUMM	N2 RATE, SCFM	CALC DH TOTAL RATE	SURFACE CO2/N2 PUMPED STG	CUMM	EVENT
9:30										arrive location
										discuss job procedure;jsea
										abc pumps 50 gals of 54go
										test lien to 200 psi
	0		3							open well start pumping water spacer
	0		3	10						pump 10 water spacer
	0		3	16						start 700 gals of 20% acid at 2-3 bpm
	0		3	162	188					and 0 psi; flush with 162 bbls of water
										at 3 bpm and 0 psi
										shut down ; well had 0 psi

TREATING PRESSURE MIN:	0	psi	ISIP:	0	psi	MIN RATE:	2	bpm
TREATING PRESSURE MAX:	40	psi	5 MIN SI PRESSURE:		psi	MAX RATE:	3	bpm
AVG TREATING PRESSURE:	0	psi	10 MIN SI PRESSURE:		psi	AVG RATE:	3	bpm
LOAD TO RECOVER:			15 MIN SI PRESSURE;		psi			
Wellbore Fluid:		bbl						
Acid		bbl						
Frac Fluid:		bbl						
Flush/Displacement:		bbl						

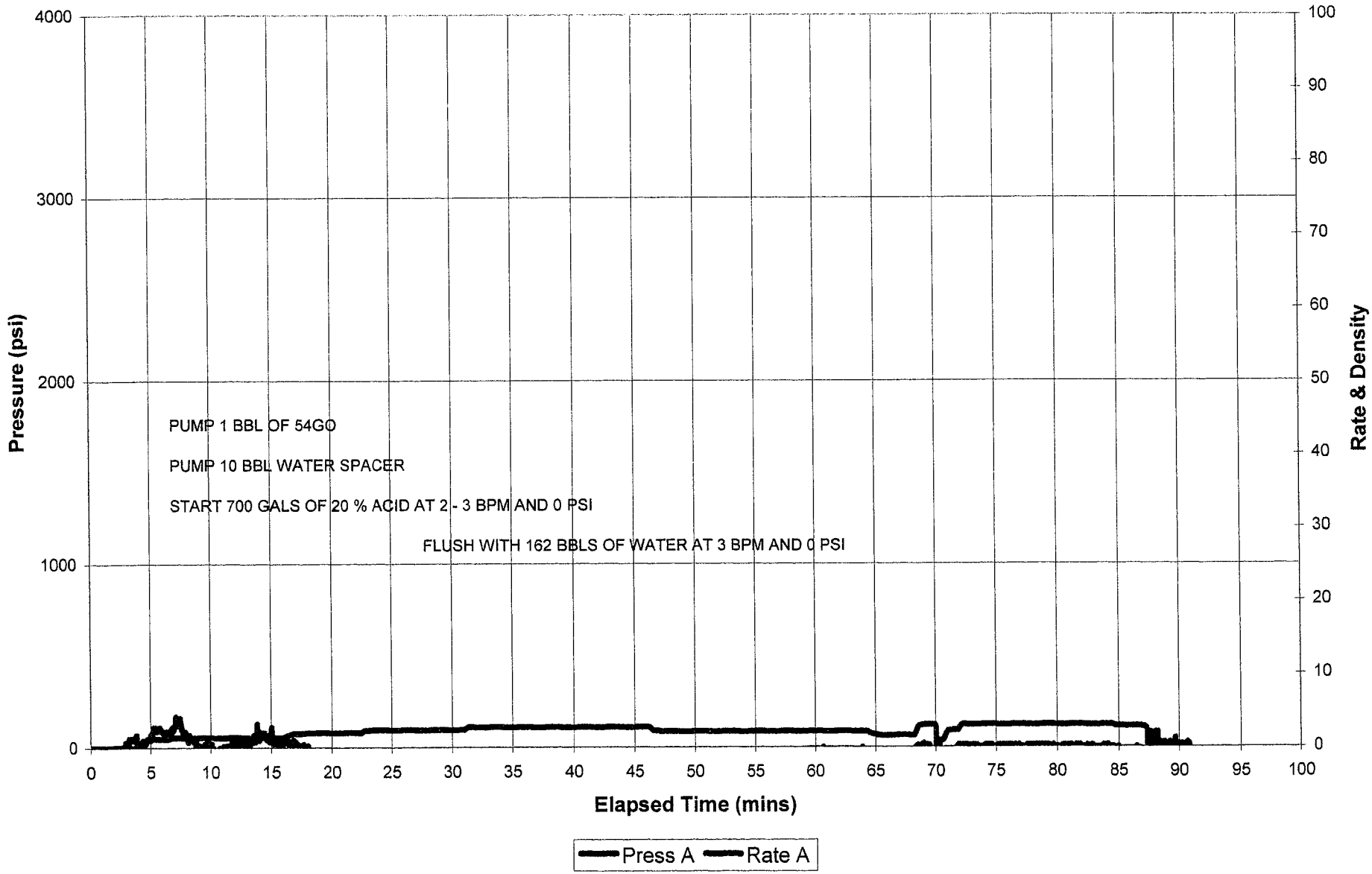
PACE SUPERVISOR:	Williams, Dave
SIGNATURE:	
CUSTOMER REPRESENTATIVE:	DAN GREEN

MAR/REG OIL COMPANY

TIN CUP 5-26

ACID /SCALE

9/23/09



10 Continued from page TIN CUP 5-26 ACID TREATMENT 9/23/2009

PROBLEM: SCALE IN FORMATION

ACIDIZE 700 GAL 20% HCL, 55 GAL 54GO, 162 BBL WATER CSG

8:30 PACE AC ON LOCATION, RW TRUCKING ON LOCATION

9:00 RU 54GO SOLVENT PUMP 55 ~~50~~ GAL DOWN CSG

9:30 PUMP 105 BBL WATER DOWN CSG

PUMP 700 GAL DOWN CSG

10:00 PUMP WATER DOWN CSG 162 BBL

10:30 WATER TRUCK LEFT TRAILER AND RETURNED TO PICK UP ADDL WATER

10:50 WATER TRUCK RETURNS (STATUS 132 BBLS TOTAL ON VACUUM)

11:15 PUMPED 189 BBL TOTAL ACID AND WATER

SHUT-IN OVER NIGHT

11:30 OFF LOCATION

Continued to page

SIGNATURE

DATE 9/23/2009

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION